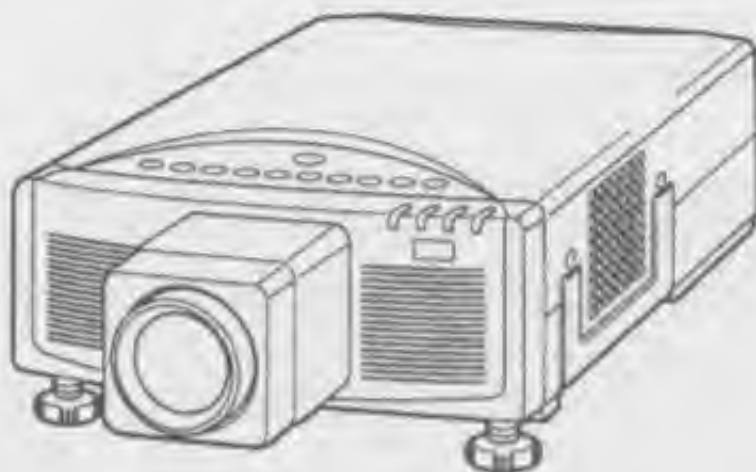




MULTIMEDIA PROJECTOR

MODEL **LC-7000UE**



OWNER'S INSTRUCTION MANUAL

INFORMATION TO THE USER

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

SAFETY PRECAUTIONS

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

The projector has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature.

Intense light source. Do not stare directly into the projection lens as possible eye damage could result. Be especially careful that children do not stare directly into the beam.

If the projector will not be used for an extended time, unplug the projector from the power outlet.

READ AND KEEP THIS OWNER'S MANUAL FOR LATER USE.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.



THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.

IMPORTANT:

For your protection in the event of theft or loss of this LC Data-Grade projector, please record the Model Number and Serial Number located on the rear of unit and retain this information. Refer to these numbers whenever you call upon your authorized dealer regarding this product.

Do not discard shipping carton and packing materials. These items may be needed for storage or future servicing.

Model No: LC-7000UE

Serial No: _____

IMPORTANT SAFETY INSTRUCTIONS

All the safety and operating instructions should be read before the product is operated.

Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

Do not use attachments not recommended by the manufacturer as they may cause hazards.

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the projector. Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool, etc.

Slots and openings in the back and bottom of the cabinet are provided for ventilation, to insure reliable operation of the equipment and to protect it from overheating.

The openings should never be covered with cloth or other material, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

This projector should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized dealer or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by persons walking on it.

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the projector.

Do not attempt to service this projector yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Unplug this projector from wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power cord or plug is damaged or frayed.
- If liquid has been spilled into the projector.
- If the projector has been exposed to rain or water.
- If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation.
- If the projector has been dropped or the cabinet has been damaged.
- When the projector exhibits a distinct change in performance; this indicates a need for service.

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.



This projector is equipped with a grounding type AC line plug. Should you be unable to insert the plug into the outlet, contact your electrician. Do not defeat the safety purpose of this grounding type plug.

Follow all warnings and instructions marked on the projectors.

For added protection to the projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and powerline surges.



An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

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INTRODUCTION

The projector is a multimedia projector designed for portability, durability, and ease of use. The projector utilizes built-in multimedia features, a palette of 16.8 million colors, and active matrix liquid crystal display (LCD) technology.

COMPATIBILITY

The projector is compatible with many different types of personal computers and video devices, including:

- IBM-compatible computers, including laptops, up to 1024 × 768 resolution with a vertical frequency up to 75Hz.
- Apple Macintosh and PowerBook computers up to 1024 × 768 resolution.
- Various VCRs, video disc players, video cameras, satellite TV tuners or other AV equipment using any of the worldwide video standards, including NTSC, NTSC4.43, PAL and SECAM.

IMAGE RESOLUTION

The resolution of the projector's projected image is 832 × 624. The projector displays computer images just as they appear on your computer's monitor. Screen resolutions between 832 × 624 and 1024 × 768 are compressed to 800 × 600. The projector cannot display screen resolutions above 1024 × 768. If your computer's screen resolution is higher than 1024 × 768, reset it to a lower resolution before you connect the projector.

PORTABILITY

The projector is extremely compact in size and weight. Having a sophisticated shape like an attaché case with a retractable carrying handle, the projector will help you make powerful presentations wherever you go. To strengthen the portability, the LENS RETRACT function is designed to protect the lens from being damaged during transportation. With this function, the lens is retracted when the power is off.

UNPACKING THE PROJECTOR

The projector comes with the parts shown listed below. Check to make sure all are included. If any parts are missing, contact an authorized dealer or service station.

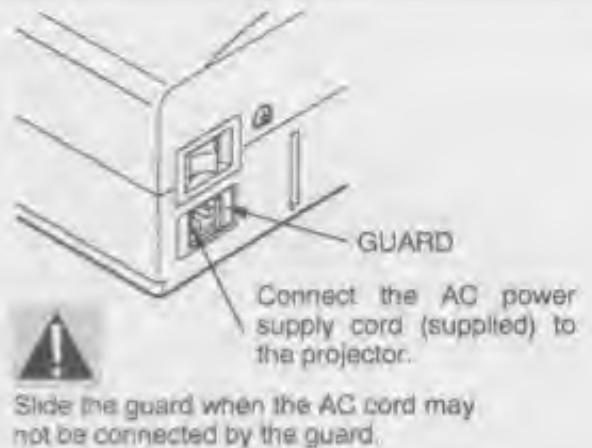
- Owner's Manual.
- Warranty Card.
- AC Power Cord.
- Remote Control Transmitter Unit and batteries.
- Lens Cover.
- Protective Dust Cover.
- VGA Cable.
- VGA/MAC Adapter.
- Mouse Cable for PS/2 port.
- Mouse Cable for serial port.
- Mouse Cable for ADB port.

TRADEMARKS

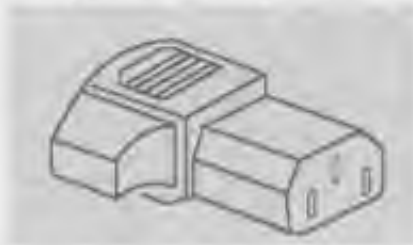
- Apple, Macintosh, and PowerBook are trademarks or registered trademarks of Apple Computer, Inc.
- IBM and PS/2 are trademarks or registered trademarks of International Business Machines, Inc.

POWER REQUIREMENTS

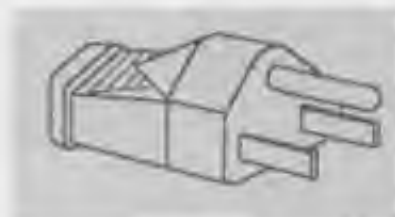
Your projector uses nominal input voltages of 100-120 VAC. The projector automatically selects the correct input voltage. The projector is designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system. Consult your authorized dealer or service station if you are not sure what type of power is supplied to your building.



Projector side (Female)

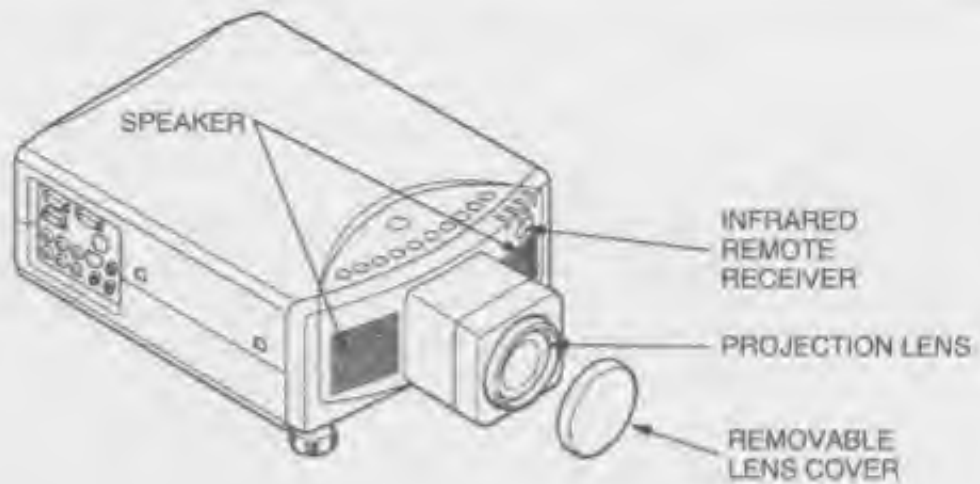


AC outlet side (Male)



DESCRIPTION

FRONT



REAR

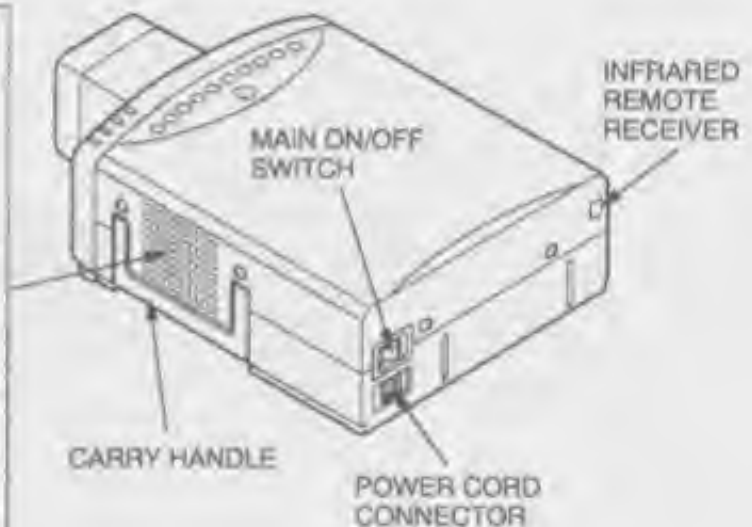
EXHAUST VENT



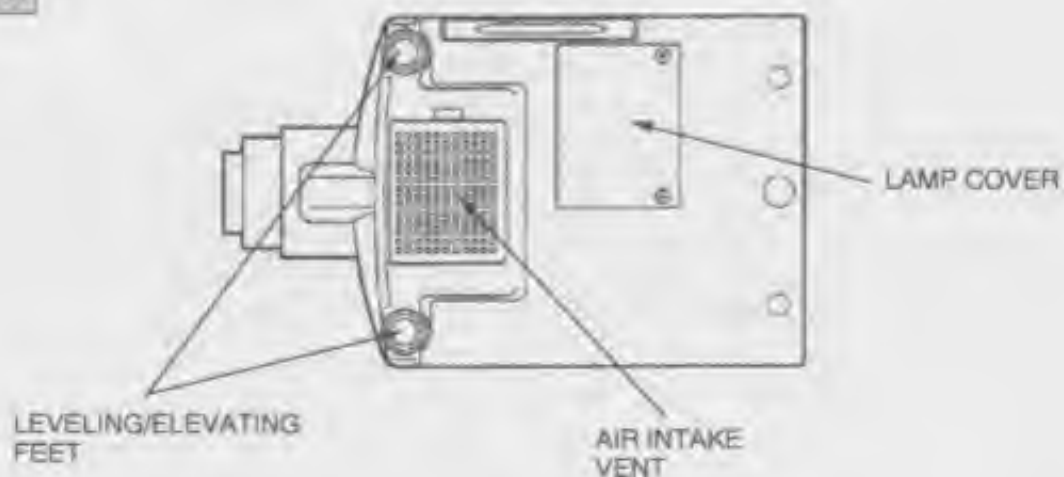
CAUTION HOT AIR!

Air blown from the exhaust vent is hot. Observe the following when handling your projector or choosing a location to install it.

- Keep heat-sensitive objects away from the exhaust port.
- If you set the projector on top of a metallic surface, the surface will become hot because of the hot air exhaust. Be careful when handling.
- Do not touch the cabinet near to the exhaust vent, and especially screws and metallic parts. These parts will become hot while the projector is used.



BOTTOM



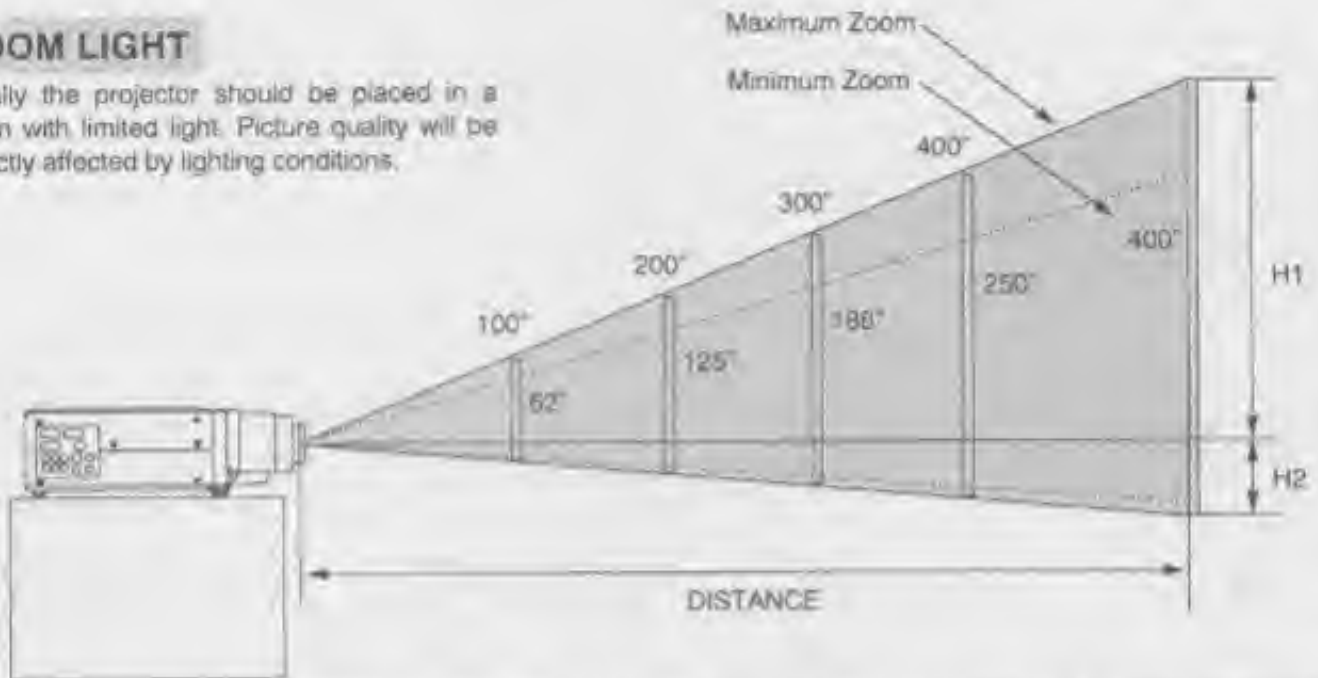
SETTING-UP THE PROJECTOR

POSITIONING:

- This projector is basically designed to project on a flat projection surface.
- This projector can be focused from 3.6' (1.1m) ~ 75.6' (23.0m).
- Use the illustration below as an example when positioning the projector to the screen.

ROOM LIGHT

Ideally the projector should be placed in a room with limited light. Picture quality will be directly affected by lighting conditions.



Screen Size	Max. Zoom	32"	60"	100"	150"	200"	300"	400"	640"
Min. Zoom	20"	37"	62"	94"	125"	188"	250"	400"	
Distance		3.6'(1.1 m)	6.9'(2.1 m)	11.8'(3.6 m)	17.8'(5.4 m)	23.7'(7.2 m)	35.2'(10.7 m)	47'(14.3 m)	75.6'(23.0 m)

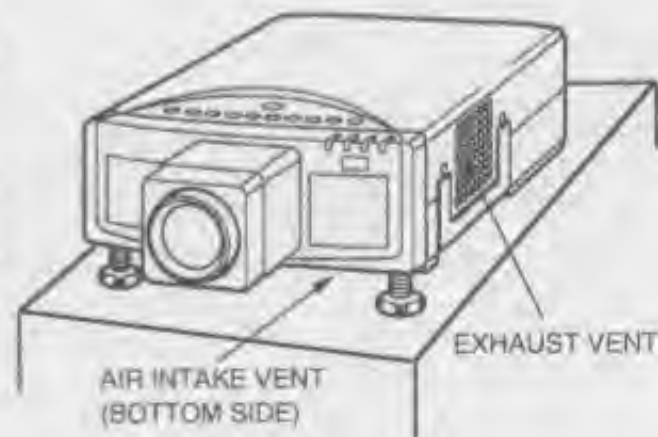
Screen Size (W × H) inch	20"	60"	100"	150"	200"	300"	400"
Height (H1)	10.7 inch	32 inch	53 inch	80 inch	106 inch	160 inch	212 inch
Height (H2)	1.3 inch	4 inch	7 inch	10 inch	14 inch	20 inch	28 inch

VENTILATION

Although this projector has a cooling fan to protect from overheating, please be careful to set the projector so that it can cool properly and you can avoid a risk of fire and malfunction.



- Do not cover the vents with papers or other materials.
- Keep the side grill at least 3.3' (1m) away from any object.
- Make sure that there are no objects under the projector. An object under the projector may prevent the projector from taking the cooling air through the bottom vent.

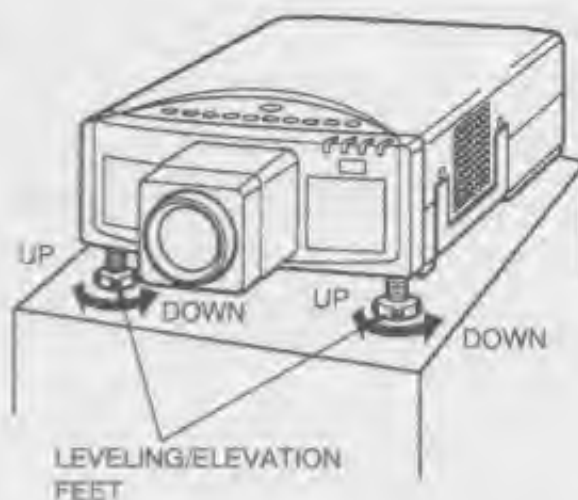


LEVELING AND ELEVATING ADJUSTMENTS

Screen positioning adjustment can be made with the two leveling/elevating feet.

Adjustments of up to 6" are possible by rotating the feet on the bottom of the projector.

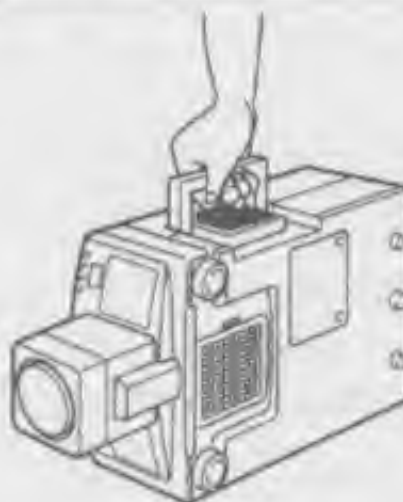
Level the projector, by rotating the two feet (left and right) on the bottom of the projector.



MOVING THE PROJECTOR

Use the carry handle when moving the projector.

Replace the lens cover when moving the projector to prevent damage to the lens.



CONNECTING THE PROJECTOR

Your projector is equipped with various audio/video inputs and outputs including Computer HDB15-pin (VGA) terminals, Monitor HDB15-pin (VGA) terminals and S-VHS video.

CONNECTING THE COMPUTER

CONNECTING TO THE COMPUTER INPUT HDB15-PIN (VGA) TERMINALS (1 and 2)

Personal computers can be connected to the HDB15-pin (VGA) terminal on the projector.

- Connect the computer to these terminals using the VGA cable or VGA cable with VGA/MAC adapter (provided).

WARNING: For projectors, the VGA cable provided is designed to reduce RFI (Radio Frequency Interference) emissions. For regulatory compliance reasons, this cable must be used and must not be replaced by any other cable.

CONNECTING TO THE MONITOR OUTPUT HDB15-PIN (VGA) TERMINAL

This terminal contain the information that is viewed on the screen.

Monitor can be connected to the HDB15-pin (VGA) terminal on the projector.

- Connect the monitor to this terminal using the monitor cable (not provided).



Pin No./Signal

- 1 Red input
- 2 Green input
- 3 Blue input
- 4 Sense 2
- 5 Ground (Horiz. sync.)
- 6 Ground (Red)
- 7 Ground (Green)
- 8 Ground (Blue)

Pin No./Signal

- 9 Non Connect
- 10 Ground (Vert. sync.)
- 11 Sense 0
- 12 Sense 1
- 13 Horiz. sync.
- 14 Vert. sync.
- 15 Reserved

CONNECTING TO THE COMPUTER AUDIO INPUT JACKS (1 and 2)

- Connect audio outputs from your computer to these jacks using the audio cable (not provided).

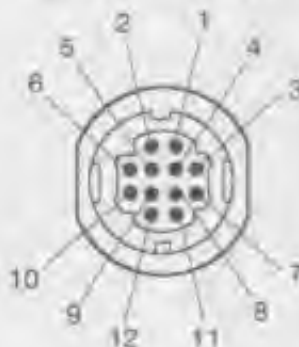
CONNECTING TO THE MULTI-POLE 12-PIN (CONTROL PORT) CONNECTOR

- When the computer (connected to the COMPUTER INPUT 1 terminal only) is operated by the remote control unit, connect three different type of cables (provided) between control port and computer mouse port or serial port.

NOTE: The computer connected to the COMPUTER INPUT 2 terminal cannot be operated by the remote control unit.

COMPUTER TYPE	CABLE
IBM Compatible computer with PS/2 mouse port.	Mouse Cable for PS/2 port.
IBM Compatible computer with serial control port.	Mouse Cable for Serial port.
Apple Macintosh computer with ADB mouse port.	Mouse Cable for ADB port.

CONTROL PORT



	PS/2 Port	Serial Port	ADB Port
1	---	TxD	---
2	CLK	---	ADB
3	DATA	---	---
4	---	---	---
5	---	---	---
6	---	---	---
7	---	READY	---
8	---	---	---
9	GND	GND	GND
10	---	---	---
11	---	---	---
12	---	---	---

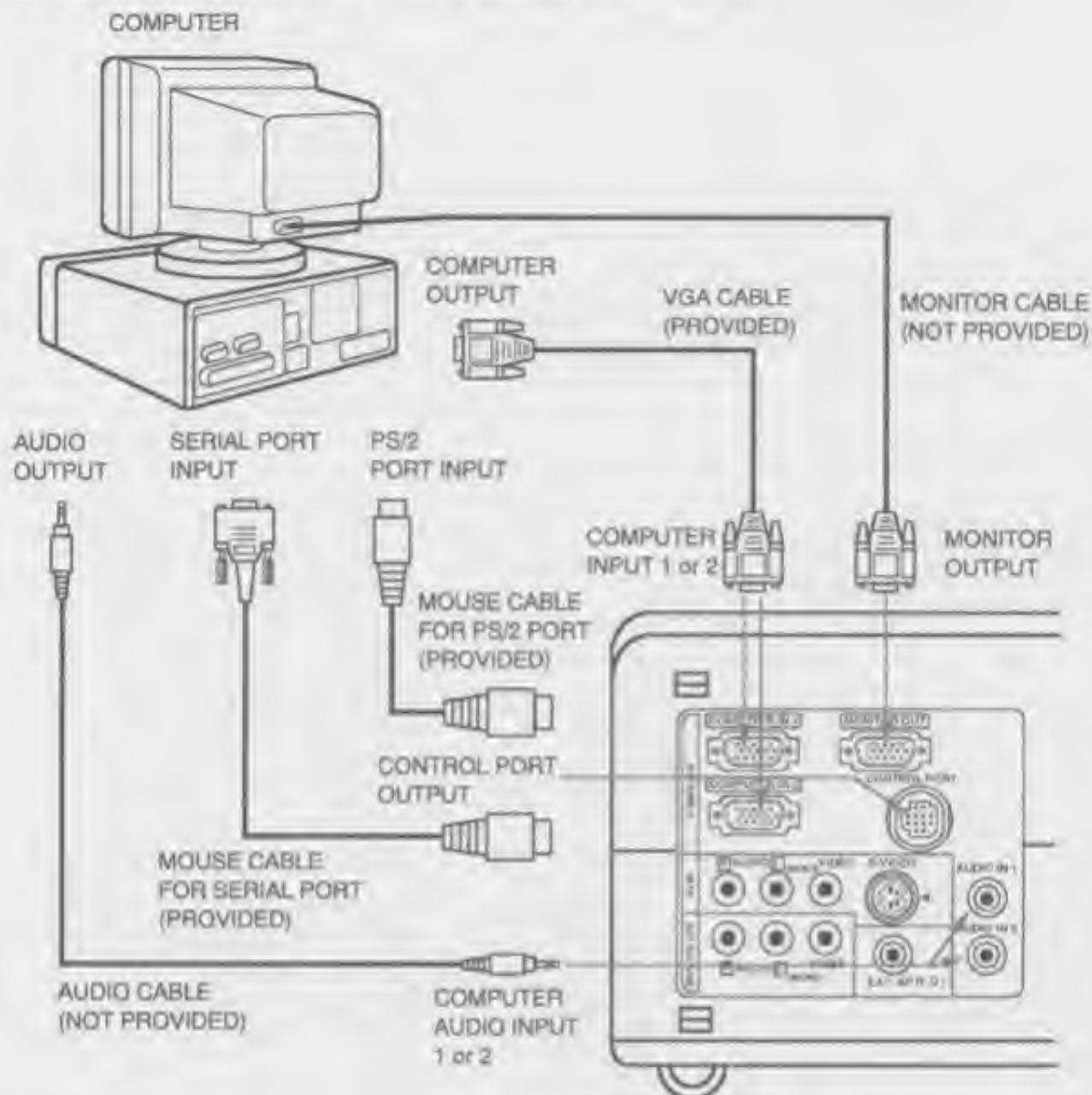
CONTROL PORT CABLE REMOVAL HINT

To disconnect the control port cable connector proceed as follows.

1. Hold the portion (A) of the connector.
2. Pull the portion (B) to disconnect.



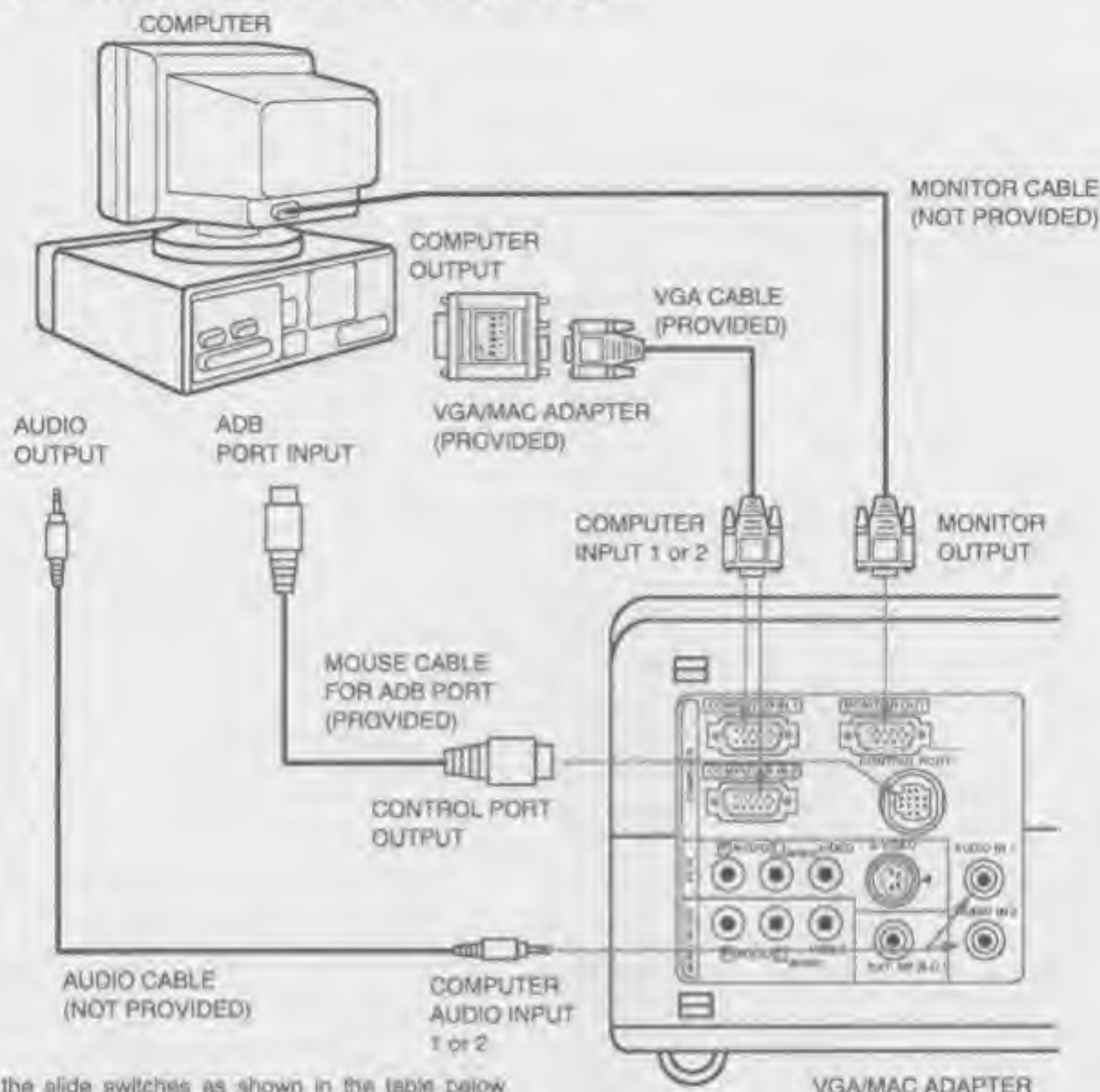
Connecting an IBM-compatible desktop computer



CAUTION

1. The hook up should be done as per the above illustration. After hook up, turn on the projector, monitor, computer, in that order.
2. The **CONTROL PORT** can only be used with the computer connected to the **COMPUTER INPUT 1** terminal.

Connecting a Macintosh desktop computer



Set the slide switches as shown in the table below depending on the RESOLUTION MODE that you want to use before you turn on the projector and computer.

RESOLUTION MODE	SW1	SW2	SW3	SW4	SW5	SW6
13" MODE (640 × 480)	ON	OFF	OFF	OFF	OFF	OFF
16" MODE (832 × 624)	OFF	OFF	OFF	OFF	OFF	ON

SW1 - SW6

ON

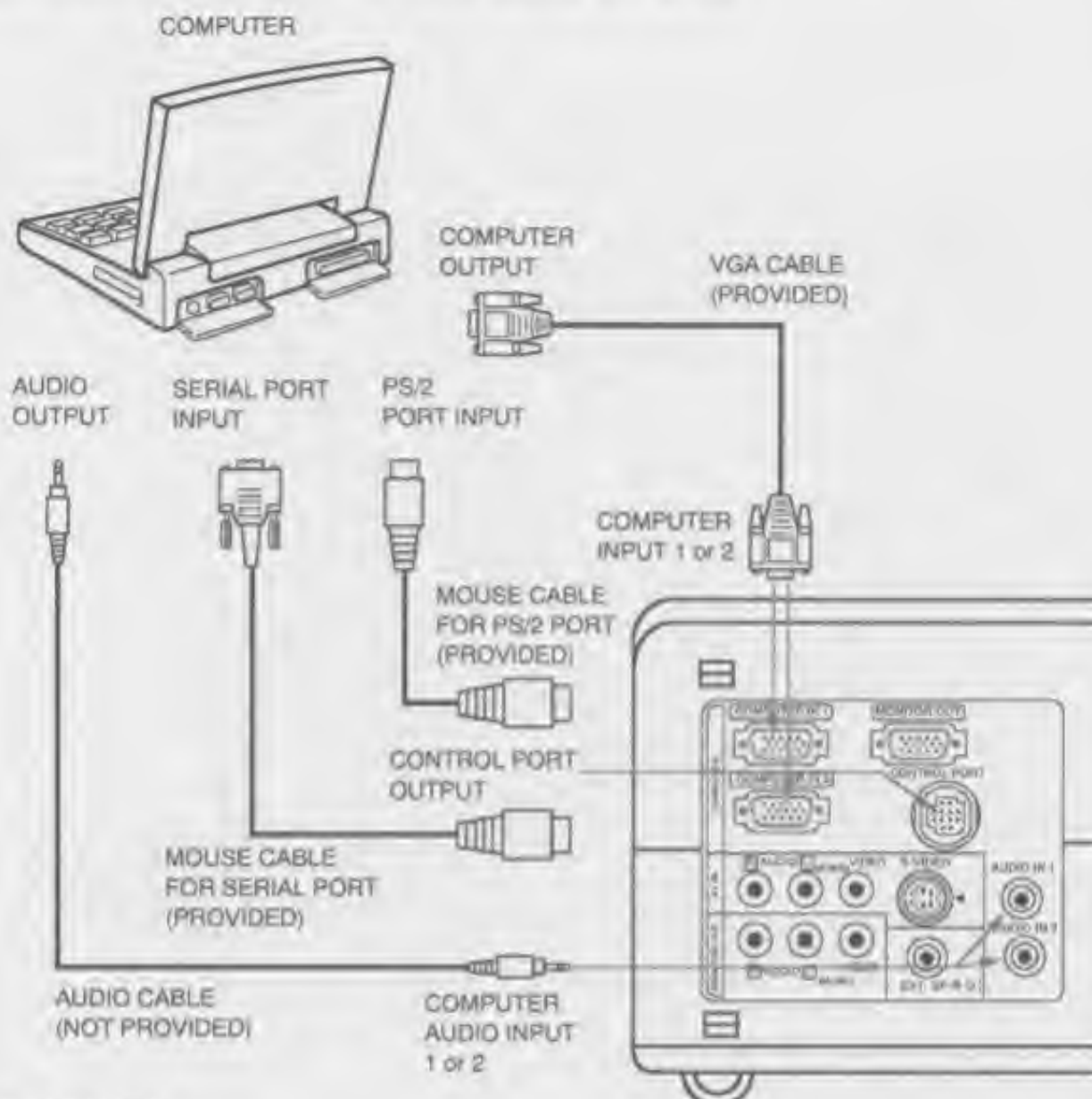
OFF



CAUTION

1. The hook up should be done as per the above illustration. After hook up, turn on the projector, monitor, computer, in that order.
2. The CONTROL PORT can only be used with the computer connected to the COMPUTER INPUT 1 terminal.

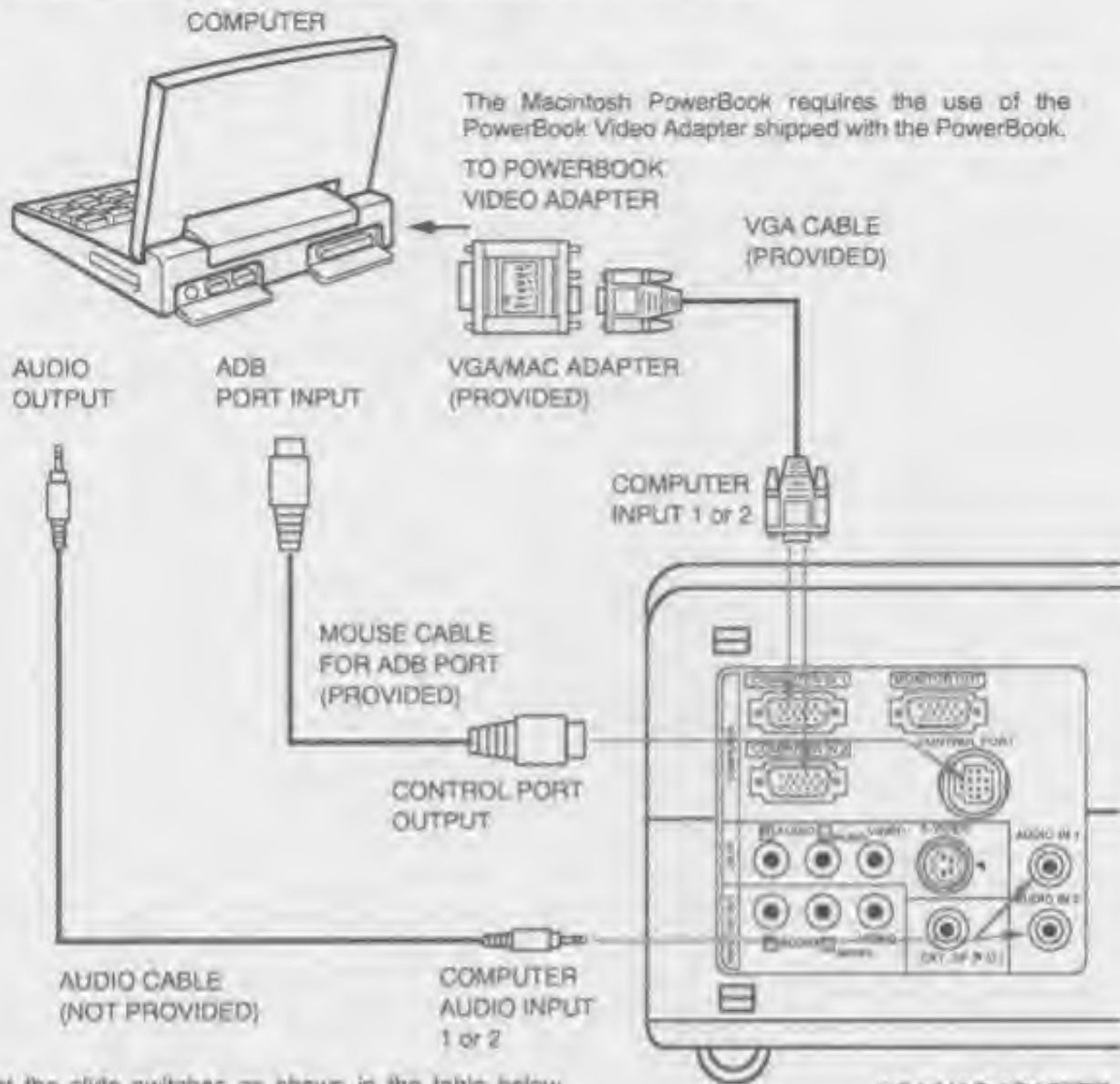
Connecting an IBM-compatible laptop computer



CAUTION

1. The hook up should be done as per the above illustration. After hook up, turn on the projector, computer, in that order.
2. The CONTROL PORT can only be used with the computer connected to the COMPUTER INPUT 1 terminal.

Connecting a Macintosh PowerBook computer



Set the slide switches as shown in the table below depending on the RESOLUTION MODE that you want to use before you turn on the projector and computer.

RESOLUTION MODE	SW1	SW2	SW3	SW4	SW5	SW6
13" MODE (640 × 480)	ON	OFF	OFF	OFF	OFF	OFF
16" MODE (832 × 624)	OFF	OFF	OFF	OFF	OFF	ON

SW1 - SW6

ON

OFF



CAUTION

1. The hook up should be done as per the above illustration. After hook up, turn on the projector, computer, in that order.
2. The CONTROL PORT can only be used with the computer connected to the COMPUTER INPUT 1 terminal.

CONNECTING THE VIDEO EQUIPMENT

CONNECTING TO THE AV INPUT JACKS

Connect to the video and audio outputs of a VCR, video disc player, video camera, satellite TV tuner or other AV equipment.

- Connect audio/video outputs from external sources to these input jacks using the audio/video cable.
- If the audio signal from the AV equipment is stereo, be sure to connect the right and left channels to the respective right and left audio input jacks.
- If the external audio signal is monaural, connect it to the left jack.

S-VHS FORMAT VCR CONNECTION

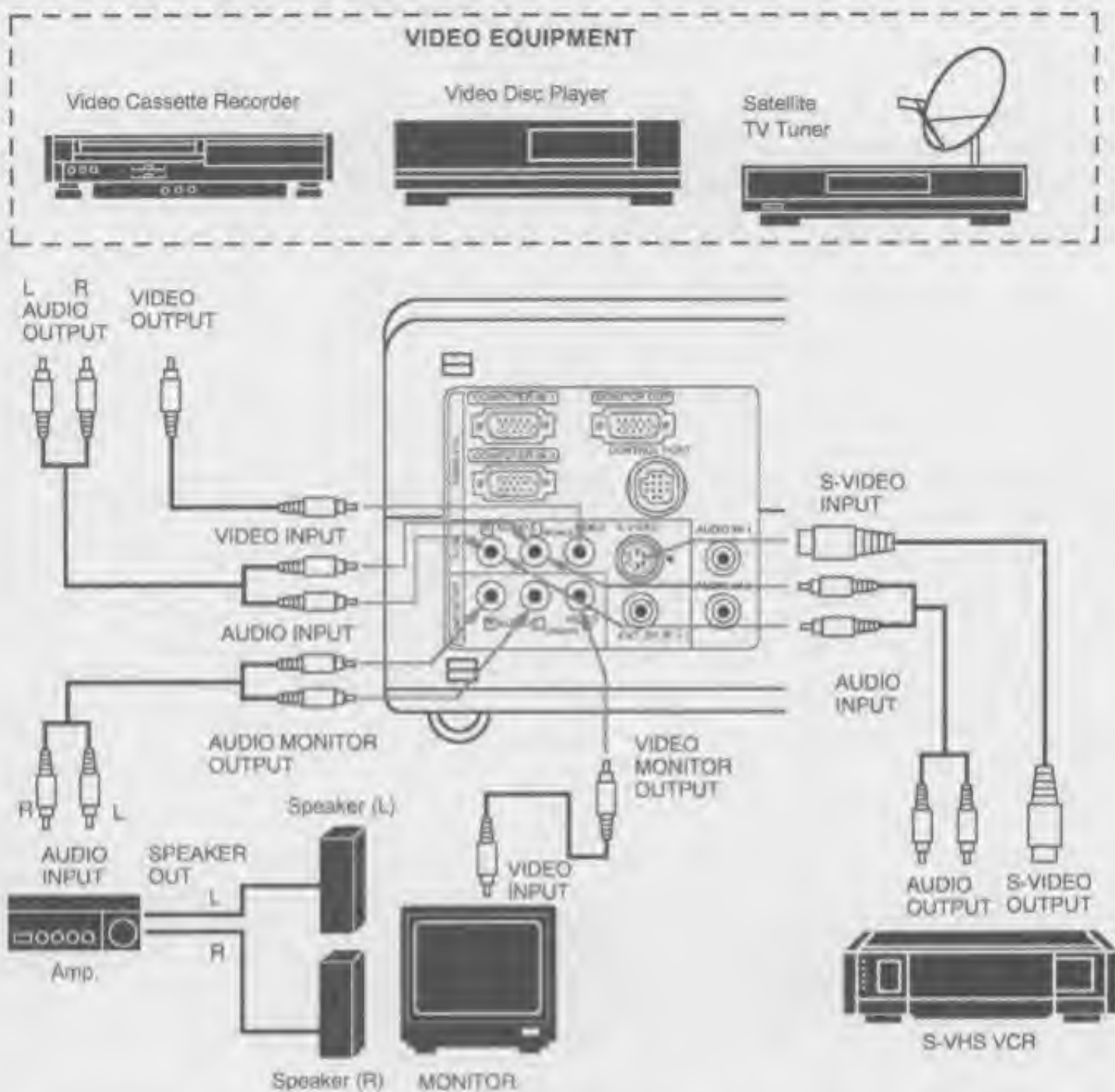
The AV input includes an extra video input jack marked S-VIDEO to allow connection to an S-VHS format VCR that has separate Y/C video signals. The S-VIDEO jack has priority over the VIDEO jack.

CONNECTING TO THE MONITOR OUTPUT JACKS

These jacks contain the audio/video information of the viewed image.

- Connect audio/video inputs from AV equipment to these output jacks using the audio/video cable.
- If the audio input of the audio equipment is stereo, be sure to connect the right and left channels to the respective right and left jacks.
- If the audio input of the audio equipment is monaural, connect it to the left jack.
- Whenever the S-VIDEO signal source is viewed on the screen, the video signal available at the MONITOR OUTPUT jack will be in black and white (monochrome).

Connecting the Video Equipment

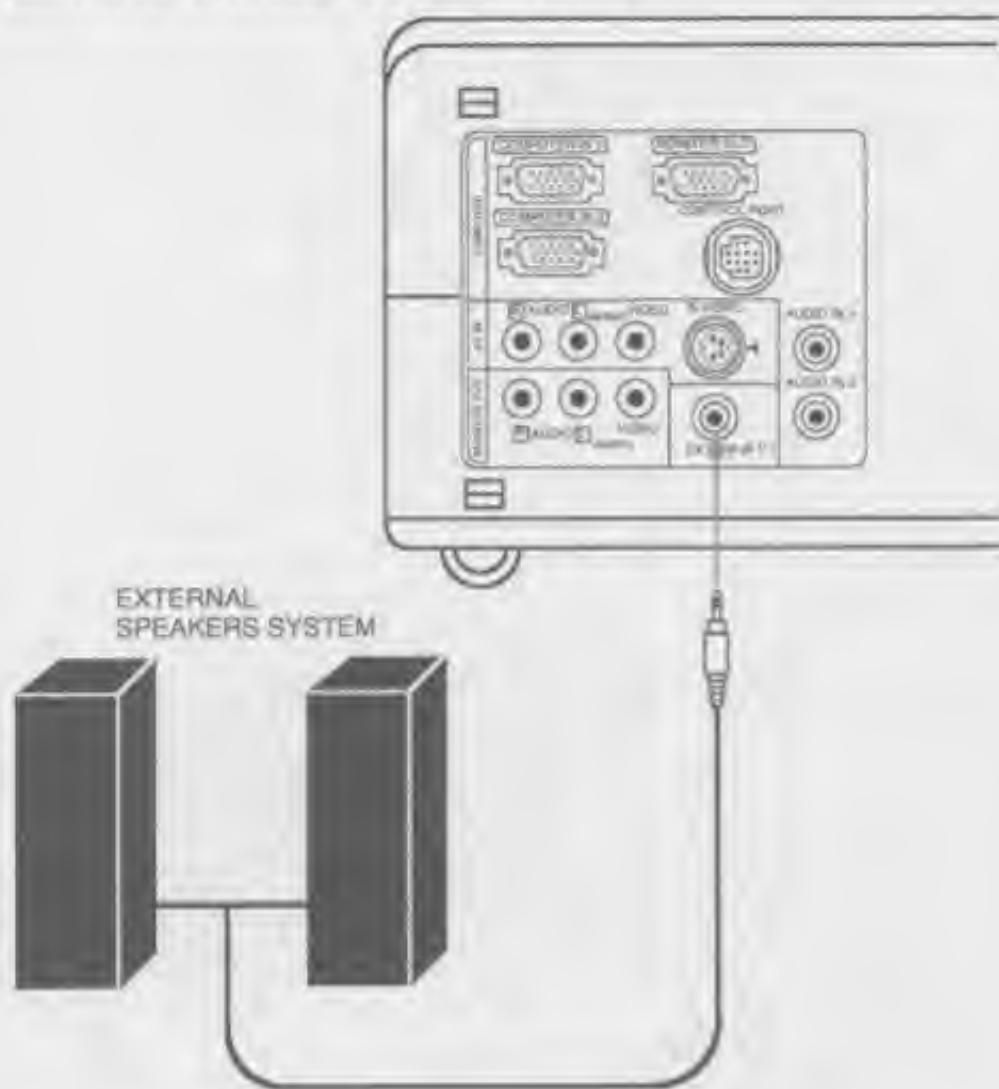


NOTE: The hook up should be done as per the above illustration. After hook up, turn on the projector, video equipment, in that order.

CONNECTING AN EXTERNAL SPEAKER

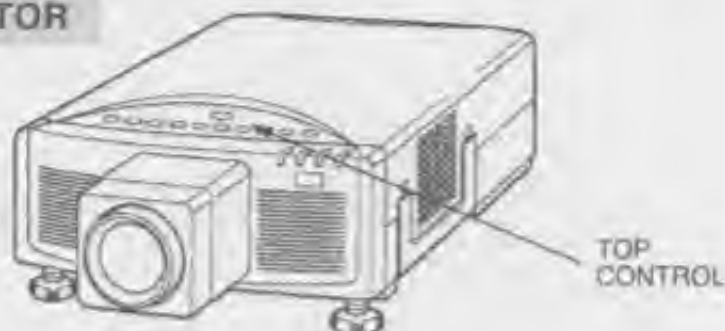
CONNECTING TO THE EXT. SP. JACK (3.5mm mini stereo type)

This jack contains the audio information of the viewed image. Use it to connect an external speaker system when using this jack. It will turn off the audio from the internal speaker.



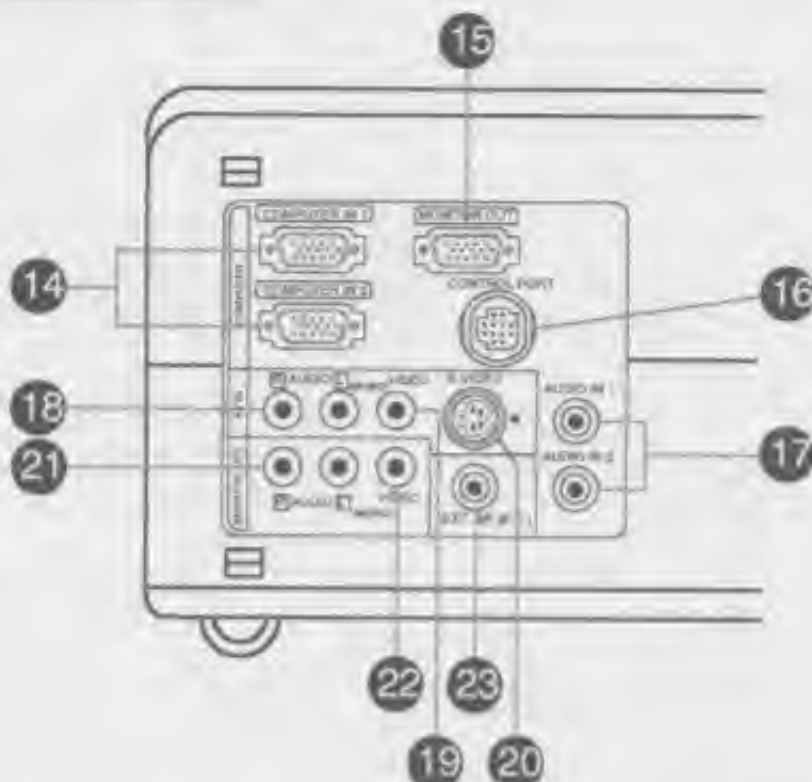
OPERATION OF CONTROLS

TOP OF THE PROJECTOR



- 1 LAMP POWER INDICATOR**
Light is dim when the projector is on.
Light is brightened when the projector is in stand-by mode.
- 2 READY INDICATOR**
Light is green when projector lamp is ready to be turned on.
- 3 TEMPERATURE WARNING INDICATOR**
Flashes red when internal projector temperature is too high.
- 4 LAMP REPLACEMENT INDICATOR**
Light is orange when projection lamp is nearing end of service life.
- 5 LAMP POWER ON/OFF BUTTON**
Used to turn projection lamp on or off.
- 6 MODE BUTTON**
Used to select video source (Computer 1, Computer 2 or VIDEO Input).
- 7 NORMAL BUTTON**
Used to reset to normal picture adjustment preset by factory.
- 8 VOLUME BUTTONS**
Used to adjust volume.
- 9 SYSTEM BUTTON**
 - **Computer Mode**
Use this button, the POINT UP/DOWN buttons and the SELECT button to select computer system.
 - **VIDEO Mode**
Use this button, the POINT UP/DOWN buttons and the SELECT button to select color system.
- 10 MENU BUTTON**
This button will activate the MENU operation.
Use this button, the POINT UP/DOWN buttons and the SELECT button to make adjustments to the projector's setting in MENU operation.
- 11 SELECT BUTTON**
This button has different functions depending on when used. This button is used to execute the item selected, to increase or decrease the values in certain items such as COLOR or BRIGHTNESS.
- 12 POINT UP/DOWN (▲/▼) BUTTONS**
 - To select an item on the MENU that you want to adjust. To select an item, move the arrow by pressing these button either ▲ or ▼.
 - Used to operate power zoom lens or power focus system. (Pressing these button either ▲ or ▼.)
- 13 ZOOM/FOCUS BUTTON**
Used to select power zoom lens or focus adjust.

SIDE OF THE PROJECTOR



14 COMPUTER INPUT TERMINALS (1 and 2)
Used to connect a computer to the projector.

15 MONITOR OUTPUT TERMINAL
Used to connect a monitor to the projector.

16 CONTROL PORT CONNECTOR
(For the Computer Input-1 terminal only)
Used to connect a mouse cable to the projector.

17 COMPUTER AUDIO INPUT JACKS (1 and 2)
mini stereo type
Used to connect a computer audio input to the projector.

18 AUDIO INPUT JACKS
Used to connect an audio input to the projector.

19 VIDEO INPUT JACK
Used to connect a video source to the projector.

20 S-VIDEO INPUT JACK
Used to connect a S-VHS video source to the projector.

21 AUDIO MONITOR OUTPUT JACKS
Permits audio connection to a monitor.

22 VIDEO MONITOR OUTPUT JACK
Permits video connection to a monitor.

23 EXT. SP. JACK (3.5 mm mini stereo type)
Used to connect a external speakers system.

OPERATION OF REMOTE CONTROL

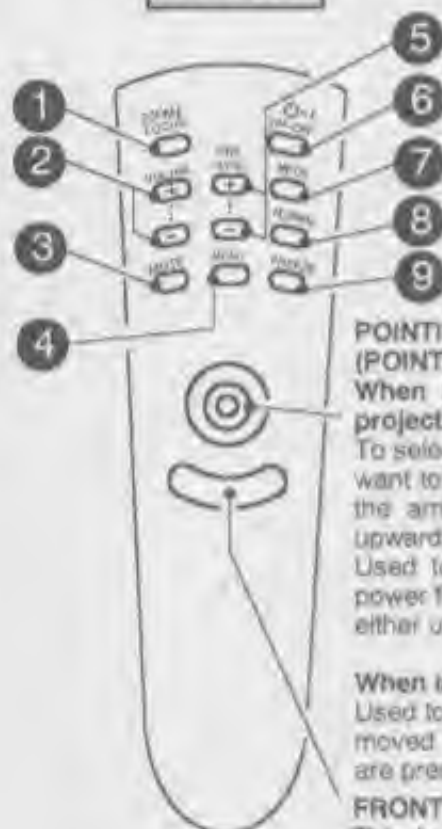
This remote control unit can be used not only as a remote control for the projector operation but also as a wireless mouse for PC. The remote control unit has a pointing pad and two click buttons. The wireless mouse function is activated when you do not adjust the setting by using the MENU operation.

NOTE: To use the wireless mouse function, connect the attached cable between the projector and your PC since the mouse control signal is transferred through the projector. Use the proper cable and follow the instruction as described in section "CONNECTING THE PROJECTOR" on pages 10 ~ 14 depending on your PC.



FRONT

SIDE



POINTING PAD (POINT UP/DOWN BUTTON)

When in use as a remote for the projector.

To select an item on the MENU that you want to adjust. To select an item, move the arrow by pressing the pad either upward or downward.

Used to operate power zoom lens or power focus system by pressing the pad either upward or downward.

When in use as a wireless mouse

Used to move the pointer. The pointer is moved according to the direction you are pressing.

FRONT CLICK BUTTON

This button has the same function as the right button in a PC mouse. Pressing this button does not affect any operation when in MENU mode.

SELECT (REAR CLICK) BUTTON

When in use as a remote for the projector.

This button has different functions depending on when used. This button is used to execute the item selected, to increase or decrease the values in certain items such as COLOR or BRIGHTNESS.

When in use as a wireless mouse

This button has the same function as the left button in a PC mouse.

- 1 ZOOM/FOCUS BUTTON**
Used to select power zoom lens or focus adjust.

- 2 VOLUME BUTTONS**
Used to adjust volume.

- 3 SOUND MUTE BUTTON**
Used to mute sound.

- 4 MENU BUTTON**
This button will activate the MENU operation. Use this button, the POINT UP/DOWN button and the SELECT (REAR CLICK) button to make adjustments to the projector's setting in MENU operation.

- 5 FINE SYNC BUTTONS**
Used to adjust fine sync.

- 6 LAMP POWER ON/OFF BUTTON**
Used to turn the projection lamp on or off.

- 7 MODE BUTTON**
Used to select video source: (Computer 1, Computer 2 or VIDEO Input)

- 8 NORMAL BUTTON**
Use to reset to normal picture adjustment preset by factory.

- 9 FREEZE BUTTON**
Use this button to freeze on-screen image.

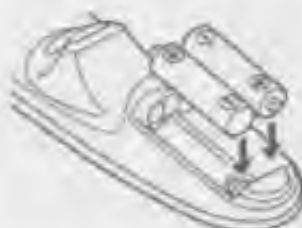
REMOTE CONTROL BATTERY INSTALLATION

1 Remove the battery compartment lid



2 Slide the batteries into the compartment

Note: For correct polarity (+ and - terminal), be sure the battery terminals are in contact with the pins in the compartment.

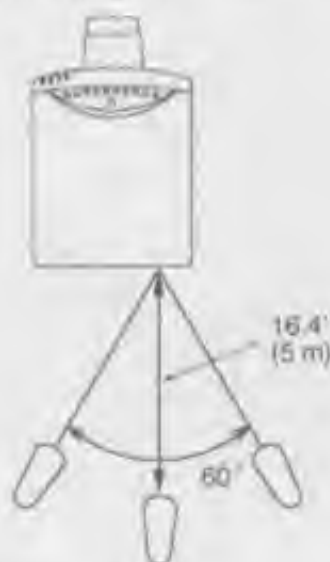
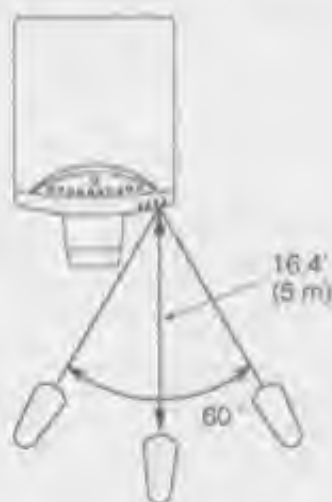


3 Replace the compartment lid



USING THE REMOTE CONTROL UNIT

Point the remote control toward the projector (Receiver window) whenever pressing the buttons. Maximum operating range for the remote control is about 16.4' (5m) and 60° front and back of the projector.



To insure safe operation, please observe the following precautions:

- Use (2) AA type manganese or alkaline batteries.
- Change two batteries at the same time.
- Do not use a new battery with a used battery.
- Avoid contact with water.
- Do not drop the remote control unit.
- If batteries have leaked on the remote control, carefully wipe the case clean and load new batteries.

CONTROL THE PROJECTOR

The projector has two types of operation: DIRECT OPERATION and MENU OPERATION. DIRECT OPERATION allows you to operate the projector by using one button without showing the MENU. In MENU OPERATION mode, you display menus where you can adjust the projector's settings. Follow the instruction for each control.

DIRECT OPERATION

ADJUST ITEM	TOP CONTROL OF THE PROJECTOR	REMOTE CONTROL UNIT
LAMP POWER ON/OFF	LAMP POWER ON-OFF BUTTON	LAMP POWER ON-OFF BUTTON
MODE SELECT	MODE BUTTON	MODE BUTTON
VOLUME ADJUSTMENT	VOLUME (+) and (-) BUTTONS	VOLUME (+) and (-) BUTTONS
SOUND MUTE	NOT AVAILABLE	MUTE BUTTON
ZOOM ADJUSTMENT	ZOOM/FOCUS BUTTON POINT UP/DOWN (▲/▼) BUTTONS	ZOOM/FOCUS BUTTON POINT (UP/DOWN) BUTTON
FOCUS ADJUSTMENT	ZOOM/FOCUS BUTTON POINT UP/DOWN (▲/▼) BUTTONS	ZOOM/FOCUS BUTTON POINT (UP/DOWN) BUTTON
NORMAL PICTURE	NORMAL BUTTON	NORMAL BUTTON
FREEZE PICTURE	NOT AVAILABLE	FREEZE BUTTON
FINE SYNC.	NOT AVAILABLE	FINE SYNC: (+) and (-) BUTTONS

MENU OPERATION

1. COMPUTER MODE

ADJUST ITEM	TOP CONTROL OF THE PROJECTOR	REMOTE CONTROL UNIT
COMPUTER SYSTEM	MENU or SYSTEM BUTTON POINT UP/DOWN (▲/▼) BUTTONS SELECT BUTTON	MENU BUTTON POINT (UP/DOWN) BUTTON SELECT (REAR CLICK) BUTTON
CUSTOM MODE	MENU BUTTON POINT UP/DOWN (▲/▼) BUTTONS SELECT BUTTON	MENU BUTTON POINT (UP/DOWN) BUTTON SELECT (REAR CLICK) BUTTON
PICTURE IMAGE BRIGHTNESS CONTRAST H-POSITION V-POSITION	MENU BUTTON POINT UP/DOWN (▲/▼) BUTTONS SELECT BUTTON	MENU BUTTON POINT (UP/DOWN) BUTTON SELECT (REAR CLICK) BUTTON
PICTURE SCREEN	MENU BUTTON POINT UP/DOWN (▲/▼) BUTTONS SELECT BUTTON	MENU BUTTON POINT (UP/DOWN) BUTTON SELECT (REAR CLICK) BUTTON

2. VIDEO MODE

ADJUST ITEM	TOP CONTROL OF THE PROJECTOR	REMOTE CONTROL UNIT
COLOR SYSTEM	MENU or SYSTEM BUTTON POINT UP/DOWN (▲/▼) BUTTONS SELECT BUTTON	MENU BUTTON POINT (UP/DOWN) BUTTON SELECT (REAR CLICK) BUTTON
PICTURE IMAGE COLOR TINT CONTRAST BRIGHTNESS SHARPNESS	MENU BUTTON POINT UP/DOWN (▲/▼) BUTTONS SELECT BUTTON	MENU BUTTON POINT (UP/DOWN) BUTTON SELECT (REAR CLICK) BUTTON
PICTURE SCREEN	MENU BUTTON POINT UP/DOWN (▲/▼) BUTTONS SELECT BUTTON	MENU BUTTON POINT (UP/DOWN) BUTTON SELECT (REAR CLICK) BUTTON

3. COMPUTER/VIDEO MODE

ADJUST ITEM	TOP CONTROL OF THE PROJECTOR	REMOTE CONTROL UNIT
OTHER FUNCTION AUTO RETRACT REVERSE T/B REVERSE L/R BLUE BACK DISPLAY MODE FREE	MENU BUTTON POINT UP/DOWN (▲/▼) BUTTONS SELECT BUTTON	MENU BUTTON POINT (UP/DOWN) BUTTON SELECT (REAR CLICK) BUTTON
LANGUAGE		

NOTES:

1. The MENU, once activated, will not disappear unless you have choose QUIT operation. If you switch to DIRECT operation by pressing a DIRECT operation button while in MENU mode, the menus will disappear and the MENU operation will end.
2. You can use the REMOTE CONTROL UNIT or the TOP CONTROL OF THE PROJECTOR to operate the MENU operation.
3. You cannot make adjustments to items that are in gray letters. Only items that are in black letters are available.

USING THE PROJECTOR

TO TURN ON THE PROJECTOR

Connect the projector to a video source (Computer, VCR, Video Camera, Video Disc Player, etc.) using the appropriate terminals on the side of the projector (See "CONNECTING THE PROJECTOR" section on pages 10-17).

Connect the projector's AC power cord into a wall outlet and turn the MAINS ON/OFF switch (located on the back of the projector) to the ON position. The LAMP POWER indicator will light RED, the READY indicator will light GREEN.

Press the LAMP POWER ON/OFF button on the remote control unit or on the projector to ON. The LAMP POWER indicator light will dim and the cooling fans will operate. The count-down display appears on the screen and the count-down starts (20-19-18...1). The signal from the video source appears after 30 seconds.



CAUTION:

THIS PROJECTOR USES A METAL-HALIDE ARC LAMP. TO EXTEND THE LIFE OF THE LAMP, ONCE YOU HAVE TURNED IT ON, WAIT AT LEAST 5 MINUTES BEFORE TURNING IT OFF.

NOTE: TEMPERATURE WARNING INDICATOR flashes red, the projector will be automatically turned off. Wait at least 5 minutes before turning the projector on.

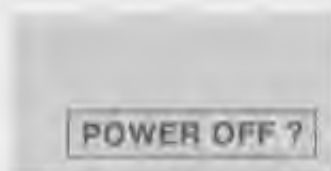
If the TEMPERATURE WARNING INDICATOR continues to flash, follow the procedures below:

- (1). Press LAMP POWER ON/OFF button to OFF.
- (2). Check the air filter for dust accumulation.
- (3). Remove dust with vacuum cleaner (See "AIR FILTER CARE AND CLEANING" section on page 41.)
- (4). Press LAMP POWER ON/OFF button to ON.

If the TEMPERATURE WARNING INDICATOR still continues to flash, call your authorized dealer or service station.

TO TURN OFF THE PROJECTOR

Press the LAMP POWER ON/OFF button on the remote control unit or on the projector. The "POWER OFF ?" appears on the screen. Press again the LAMP POWER ON/OFF button to turn OFF the projector. The LAMP POWER indicator will light bright and READY indicator will turn off. The cooling fans will operate for 1 minute after the projector is turned off. (During this "cooling down" period, the projector cannot be turned on.) The READY indicator will light green again and the projector may be turned on by pressing the LAMP POWER ON/OFF button.



MODE SELECT

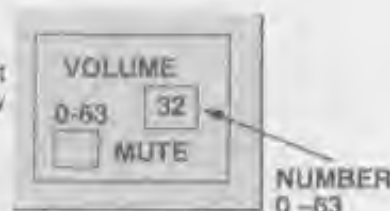
Press the MODE button (located on remote control unit or on the projector) to select Computer 1, Computer 2 or VIDEO input. The "COMPUTER 1", "COMPUTER 2" or "VIDEO" display will appear at the bottom right of the screen for a few seconds.



VOLUME ADJUSTMENT

Press the VOLUME buttons (located on remote control unit or on the projector) to adjust the volume. The volume display will appear at the bottom right of the screen for a few seconds.

Pressing volume (+) to increase volume and increase the number on the screen.
Pressing volume (-) to decrease volume and decrease the number on the screen.



SOUND MUTE FUNCTION

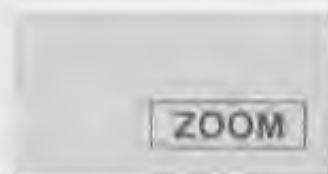
Pressing the MUTE button on the remote control unit to mute audio. Press the MUTE button again to restore audio to its previous level. The mute display will appear at the bottom right of the screen for a few seconds.



ZOOM ADJUSTMENT (With remote control unit)

Press the ZOOM/FOCUS button until zoom display appears on the screen, and press POINT (UP/DOWN) button to obtain your desired picture size. The zoom display will appear at the bottom right of the screen for a few seconds.

For a larger picture, press (UP) and for a smaller picture, press (DOWN)



ZOOM ADJUSTMENT (Without remote control unit)

Press the ZOOM/FOCUS button until zoom display appears on the screen, and press POINT UP/DOWN (▲/▼) buttons to obtain your desired picture size. The zoom display will appear at the bottom right of the screen for a few seconds.

For a larger picture, press (▲) and for a smaller picture, press (▼)



FOCUS ADJUSTMENT (With remote control unit)

Press the ZOOM/FOCUS button until the focus display appears on the screen, and press POINT (UP/DOWN) button to obtain a sharper, crisper picture. The focus display will appear at the bottom right of the screen for a few seconds.

FOCUS ADJUSTMENT (Without remote control unit)

Press the ZOOM/FOCUS button on the projector until the focus display appears on the screen, and press POINT UP/DOWN (▲/▼) buttons to obtain a sharper, crisper picture. The focus display will appear at the bottom right of the screen for a few seconds.



NORMAL PICTURE FUNCTION

The normal picture level is factory preset on the projector and can be restored anytime by pressing the NORMAL button (located on remote control unit or on the projector). The "DEFAULT" display will appear at the bottom right of the screen for a few seconds.

FREEZE PICTURE FUNCTION

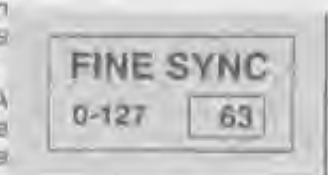
Press the FREEZE button on the remote control unit, and the still picture will remain on-screen. This function is cancelled when the FREEZE button is pressed again or any other function button is pressed.

NOTE: Your computer or video equipment is not affected by this function, and will continue to run.

FINE SYNC ADJUSTMENT

Press the FINE SYNC (+) or (-) buttons on the remote control unit, to eliminate flicker from the display on computer mode. The fine sync display will appear at the bottom right of the screen for a few seconds.

NOTE: The projector may not reproduce a proper image for some XGA signals. Since XGA (1024 × 768) image is converted to SVGA (800 × 600) image by partial scan, some lines and dots of the image do not appear. The flicker on this compressed XGA image cannot be eliminated even though you try to make a FINE SYNC adjustment.



COMPUTER SYSTEM SELECT (COMPUTER MODE)

This projector is designed to adjust to different types of computer display signals based on VGA, SVGA or XGA (See "COMPATIBLE PERSONAL COMPUTER SPECIFICATIONS" on the next page). If you set MODE SELECT to "COMPUTER", the projector will automatically process the incoming signal and project the proper image without any special setting. Although this will work in most cases, you may be required to manually set the projector for some computer signals. If the computer image is not reproduced properly, try the following procedure and switch to the computer display mode that you want to use. You can alter the system by using either the REMOTE CONTROL UNIT or the TOP CONTROL of the projector.

1. Connect the COMPUTER and the PROJECTOR.
2. Press the MODE BUTTON to set COMPUTER MODE.
3. Press the MENU BUTTON and the MAIN MENU DISPLAY dialog box will appear.
4. Move the arrow by pressing the POINT (UP/DOWN) BUTTON(s) to select SYSTEM. Press the SELECT (REAR CLICK) BUTTON. Another dialog box, COMPUTER SYSTEM DISPLAY will appear. This shows the current display mode initially detected by the projector.
5. If you want to change the display mode from the current one, point the arrow to SEARCH and then press the SELECT (REAR CLICK) BUTTON and select one of the possible alternatives shown in the top row.
6. To quit the MENU, point to QUIT and then press the SELECT (REAR CLICK) BUTTON.

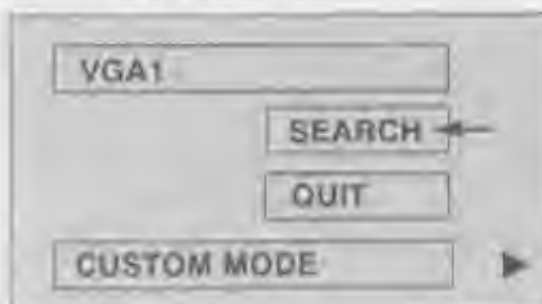
NOTE: 1. If the projector cannot discriminate or detect the input signal from the computer, the "GO TO CUSTOM MODE" display appears.

NOTE: 2. If no input signal from the computer, the "NO SIGNAL" display appears on the screen.

MAIN MENU DISPLAY



COMPUTER SYSTEM DISPLAY



For your reference, "CURRENT MODE" is also available. This will appear by the parameter dialog box, and show some characteristics of the display signal currently connected. These figures are measured by the projector. CURRENT MODE includes "H-SYNC FREQ.", "V-SYNC FREQ.", and "POLARITY".

CURRENT MODE

H-SYNC FREQ.	36.5
V-SYNC FREQ.	60.0
POLARITY	H+V+

SIMPLE METHOD

1. Connect the COMPUTER and the PROJECTOR.
2. Press the MODE BUTTON to set COMPUTER MODE.
3. Press the SYSTEM BUTTON on the projector and the COMPUTER SYSTEM DISPLAY dialog box will appear.
4. If you want to change the display mode from the current one, point the arrow to SEARCH and then press the SELECT (REAR CLICK) BUTTON and select one of the possible alternatives shown in the top row.
5. To quit the MENU, point to QUIT and then press the SELECT (REAR CLICK) BUTTON.

CUSTOM MODE

This is a special function that may be used when a computer image is not reproduced properly. (See the pages 28 - 30 for more detail.)

COMPATIBLE PERSONAL COMPUTER SPECIFICATIONS

ON-SCREEN DISPLAY	RESOLUTION	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
VGA1	640 × 480	31.44	59.88
VGA2	720 × 400	31.47	70.09
VGA3	640 × 400	31.47	70.09
VGA4	640 × 480	37.86	74.38
VGA5	640 × 480	37.86	72.81
VGA6	640 × 480	31.70	61.91
MAC LC13	640 × 480	34.97	66.60
MAC 13	640 × 480	35.00	66.67
PC98	640 × 400	24.83	56.42
FM TOWNS	640 × 400	24.38	56.40
SVGA1	800 × 600	35.21	56.33
SVGA2	900 × 600	37.86	60.32
SVGA3	800 × 600	46.92	75.08
SVGA4	800 × 600	48.32	76.39
SVGA5	800 × 600	48.01	71.98
SVGA6	800 × 600	37.90	61.03
SVGA7	800 × 600	34.50	56.38
SVGA8	800 × 600	38.00	60.51
SVGA9	800 × 600	38.60	60.31
SVGA10	800 × 600	47.90	71.92
SVGA11	800 × 600	32.70	51.09
NC1	800 × 600	36.00	60.51
MAC 16	832 × 624	49.72	74.55
XGA1	1024 × 768	48.36	60
XGA2	1024 × 768	56.28	70.26
XGA3	1024 × 768	60.08	75.10
XGA4	1024 × 768	56.47	70.06
XGA5	1024 × 768	60.30	74.91
XGA6	1024 × 768	48.50	60.02
XGA7	1024 × 768	44.00	54.59
XGA8	1024 × 768	48.36	62.65
NC2	1024 × 768	36.00	67.17

Specifications are subject to change without notice.

CUSTOM MODE

This projector can automatically detect most display signals in most personal computers currently distributed. However, some computers employ a special signal format which is different from the standard ones and may not be detected by this projector. If this happens, the projector cannot reproduce a proper image, often recognized as a flickering picture, a non-synchronized picture, a non-centered picture or a skewed picture.

To project a proper image for those non-standard formats, this projector provides CUSTOM MODE, in which you can precisely adjust several parameters to match the input signal format. The projector has eight independent memory areas that you can store the parameter settings you have made. Therefore, you can recall the setting for a specific computer when you need it.

This adjustment is available by using either the REMOTE CONTROL UNIT or the TOP CONTROL of the projector.

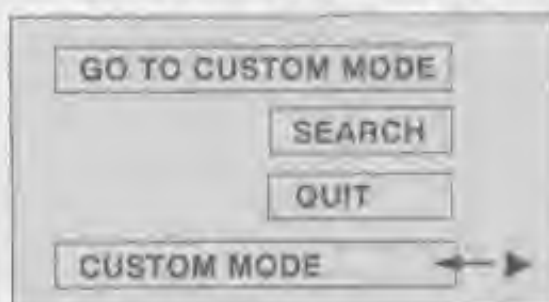
1. Press the MENU BUTTON and the MAIN MENU DISPLAY dialog box will appear.
2. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select the SYSTEM. Press the SELECT (REAR CLICK) BUTTON. Another dialog box, COMPUTER SYSTEM DISPLAY will appear.
3. Then, move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select the CUSTOM MODE. Press the SELECT (REAR CLICK) BUTTON. Another dialog box "WHERE TO RESERVE", will appear.
4. In this dialog box, you will select one of the memory areas shown as "MODE1" to "MODE8". If the parameters have been previously set and stored to the memory, the status "STORED" will appear on a corresponding row. If not, "FREE" will appear.
5. Move the arrow to one of the "MODEs" that you want to by pressing the POINT UP/DOWN BUTTON(s). Press the SELECT (REAR CLICK) BUTTON to select it.

MAIN MENU DISPLAY



NOTE: If all MODEs is STORED will appear, cannot stored the new PC parameter data. In this case, you must be cleared the PC parameter data used the MODE FREE Function.
(See "MODE FREE" section on page 38.)



COMPUTER SYSTEM DISPLAY
















CURRENT MODE	
H-SYNC FREQ.	36.5
V-SYNC FREQ.	60.0
POLARITY	H+V+


For your reference, "CURRENT MODE" is also available. This will appear by the parameter dialog box, and show some characteristics of the display signal currently connected. These figures are measured by the projector. CURRENT MODE includes "H-SYNC FREQ.", "V-SYNC FREQ.", and "POLARITY".



6. Another dialog box "CUSTOM MODE ADJUSTMENT DISPLAY 1" will appear and the parameter data for the MODE you have selected is shown in this dialog box.
7. The parameters will be filled with the data determined by the projector according to the present signal input.
8. The function of the parameters and their values are summarized in the right table.
9. Move the arrow to an item that you want to adjust by pressing the POINT UP/DOWN BUTTON(s).
10. To increase the level, point the arrow to  and then press the SELECT (REAR CLICK) BUTTON. To decrease the level, point the arrow to  and then press the SELECT (REAR CLICK) BUTTON.
11. If you want to store the settings to the memory, move the arrow to STORE and press the SELECT (REAR CLICK) BUTTON. When you have stored the settings, you will see "OK ?" as a confirmation. Move the arrow to YES and then press the SELECT (REAR CLICK) BUTTON to quit.
12. To recall the parameter data before settings, move the arrow to RESET and then press the SELECT (REAR CLICK) BUTTON. You can adjust the settings again if needed.
13. Whenever you want to quit the MENU, point to QUIT and then press the SELECT (REAR CLICK) BUTTON.
14. If you quit the MENU without storing the settings to the memory, the parameter data you changed will not be kept.
15. The stored settings are permanently kept even if the MAIN ON/OFF is switched off.
16. Adjust the data such as a "CLAMP", "H-SHIFT", "HEIGHT", "WIDTH", "V-WINDOW" and "V-RAM SYNC" if you needed. move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select ADVANCED. Press the SELECT (REAR CLICK) BUTTON.

CUSTOM MODE ADJUSTMENT DISPLAY 1

MAC/XGA	OFF	 
TOTAL LINES	630	 
FINE SYNC	63	 
TOTAL DOTS	1056	 
HORIZONTAL	47	 
VERTICAL	4	 
<input type="button" value="RESET"/>		
<input type="button" value="STORE"/>		
<input type="button" value="QUIT"/>		
<input type="button" value="ADVANCED"/> 		

OK ?
<input type="button" value="YES"/> 
<input type="button" value="NO"/>

ITEM	FUNCTION
MAC/XGA	When MAC or XGA image is to be projected, select MAC or XGA. For other PC select OFF.
TOTAL LINES	The number of the total vertical lines. Adjust the number to match your PC image.
FINE SYNC	Adjustment of the fine sync to eliminate flicker from the display.
TOTAL DOTS	The number of the total dots in one horizontal period. Adjust the number to match your PC image.
HORIZONTAL	Adjustment of the horizontal picture position. When the image is not centered on the screen, adjust this.
VERTICAL	Adjustment of the vertical picture position. When the image is not centered on the screen, adjust this.

17. Another dialog box "CUSTOM MODE ADJUSTMENT DISPLAY 2" will appear and the parameter data for the MODE you have selected is shown in this dialog box.
18. Move the arrow to an item that you want to adjust by pressing the POINT UP/DOWN BUTTON(s).
19. To increase the level, point the arrow to Δ and then press the SELECT (REAR CLICK) BUTTON. To decrease the level, point the arrow to ∇ and then press the SELECT (REAR CLICK) BUTTON.
20. To recall the parameter data before settings, move the arrow to RESET and then press the SELECT (REAR CLICK) BUTTON. You can adjust the settings again if needed.
21. If you want to store the settings to the memory, move the arrow to STORE and press the SELECT (REAR CLICK) BUTTON. When you have stored the settings, you will see "OK ?" as a confirmation. Move the arrow to YES and then press the SELECT (REAR CLICK) BUTTON to quit.
22. Whenever you want to quit the MENU, point to QUIT and then press the SELECT (REAR CLICK) BUTTON.
23. If you quit the MENU without storing the settings to the memory, the parameter data you changed will not be kept.
24. The stored settings are permanently kept even if the MAIN ON/OFF is switched off.

CUSTOM MODE ADJUSTMENT DISPLAY 2

CLAMP	300	Δ ∇
H-SHIFT	OFF	Δ ∇
HEIGHT	1	Δ ∇
WIDTH	1	Δ ∇
V-WINDOW	0	Δ ∇
V-RAM SYNC	40	Δ ∇
RESET		
STORE		
QUIT		

OK ?

YES \rightarrow

NO

ITEM	FUNCTION
CLAMP	Adjustment of the clamp level. When the image has a dark bar, try this adjustment.
H-SHIFT	Coarse adjustment of the CLAMP position. To be adjusted in conjunction with CLAMP.
HEIGHT	Expanding or compressing level for the vertical direction.
WIDTH	Expanding or compressing level for the horizontal direction.
V-WINDOW	To be adjusted to lessen the skew noise.
V-RAM SYNC	To be adjusted to eliminate the VRAM noise generated by the partial scan.

PICTURE IMAGE ADJUSTMENT (COMPUTER MODE)

Although picture adjustments have been preset at the factory to our standards, you may want to change the setting. You can make adjustments to the picture image by using either the REMOTE CONTROL UNIT or the TOP CONTROL of the projector.

1. Press the MENU BUTTON and the MAIN MENU DISPLAY dialog box will appear.
2. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select IMAGE. Press the SELECT (REAR CLICK) BUTTON. Another dialog box, IMAGE ADJUST DISPLAY will appear. This shows the current picture settings.
3. In this dialog box, you can adjust to increase or decrease the setting levels.
4. Move the arrow to an item to be adjust by pressing the POINT UP/DOWN BUTTON(s).
5. To increase the level, point the arrow to \triangle and then press the SELECT (REAR CLICK) BUTTON. To decrease the level, point the arrow to ∇ and then press the SELECT (REAR CLICK) BUTTON.
6. You may want to store the settings to the memory so that you can recall them later. To store the settings, move the arrow to STORE and then press the SELECT (REAR CLICK) BUTTON. When you have stored the settings, you will see "OK ?" as a confirmation.
7. Move the arrow to YES and then press the SELECT (REAR CLICK) BUTTON to quit. The stored settings are permanently kept even if the MAIN ON/OFF is switched off.
8. If you do not want to store the settings, move the arrow to QUIT and then press the SELECT (REAR CLICK) BUTTON. The settings changed are temporarily effective until you turn off the MAIN ON/OFF switch.
9. To recall the settings you have stored, move the arrow to RESET and then press the SELECT (REAR CLICK) BUTTON. You can adjust the settings again if needed.

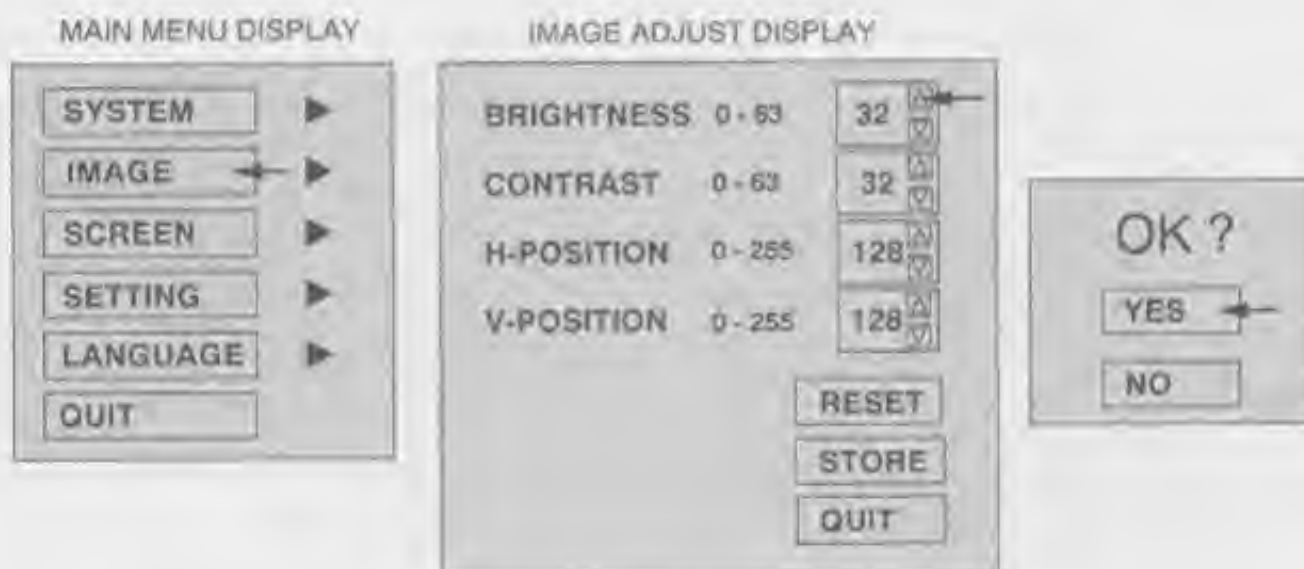
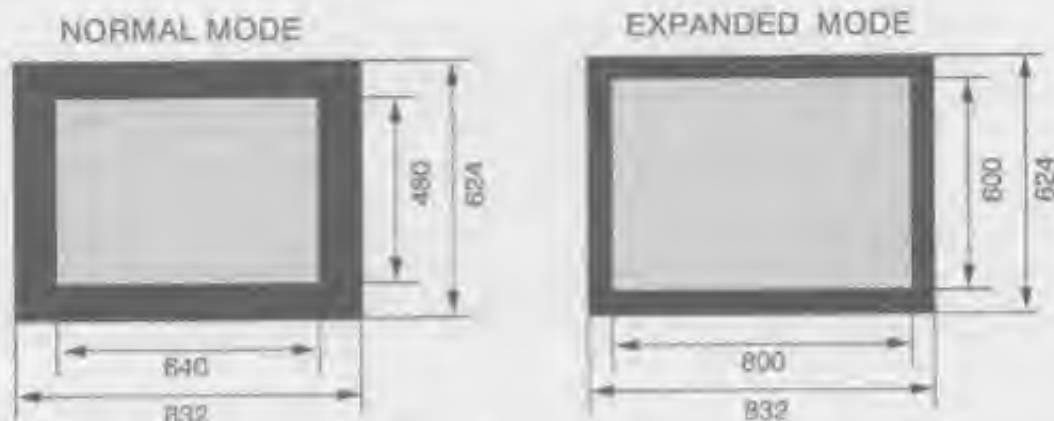


TABLE OF PICTURE IMAGE ADJUSTMENT

BRIGHTNESS	DARKER	0 \longleftrightarrow 63	BRIGHTER
CONTRAST	LIGHTER	0 \longleftrightarrow 63	DEEPER
H. POSITION	RIGHT	0 \longleftrightarrow 255	LEFT
V. POSITION	DOWNWARD	0 \longleftrightarrow 255	UPWARD

PICTURE SCREEN ADJUSTMENT (COMPUTER MODE)

This projector have two mode projection "NORMAL" and "EXPANDED" for VGA image only as showned below illustration. This adjustment is available by using either the REMOTE CONTROL UNIT or the TOP CONTROL of the projector.



1. Press the **MODE BUTTON** to set **COMPUTER MODE**.
2. Press the **MENU BUTTON** and the **MAIN MENU DISPLAY** dialog box will appear.
3. Move the arrow by pressing the **POINT UP/DOWN BUTTON(s)** to select **SCREEN**. Press the **SELECT (REAR CLICK) BUTTON**. Another dialog box, **SCREEN ADJUST DISPLAY** will appear.
4. To switch to "EXPANDED MODE", move the arrow to **EXPANDED** by pressing the **POINT UP/DOWN BUTTON(s)** and then press the **SELECT (REAR CLICK) BUTTON**.
5. To switch to "NORMAL MODE", move the arrow to **NORMAL** by pressing the **POINT UP/DOWN BUTTON(s)** and then press the **SELECT (REAR CLICK) BUTTON**.
6. The "EXPANDED" setting is temporarily effective until you turn off the **MAIN ON/OFF switch**.
7. To quit the **MENU**, move the arrow to **QUIT** and then press the **SELECT (REAR CLICK) BUTTON**.



COLOR SYSTEM SELECT (VIDEO MODE)

This projector is compatible with the four major broadcast video standards: PAL, SECAM, NTSC or NTSC 4.43 (COLOR SYSTEMS). When the color system is set to "AUTO" position, this projector can receive color programs from one of the 4 systems (PAL, SECAM, NTSC or NTSC 4.43), automatically. However, if the video signal is poor, the projector may not reproduce the proper video image. In this case, this projector allows you to choose a specific broadcast signal format. You can select the COLOR SYSTEM by using either the REMOTE CONTROL UNIT or the TOP CONTROL of the projector.

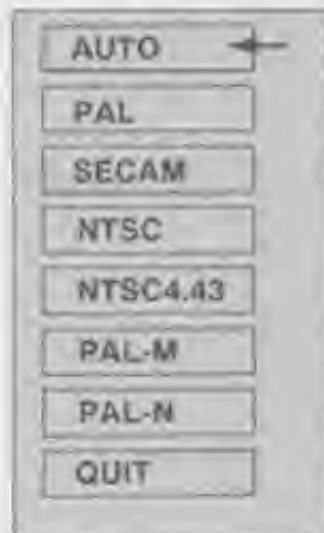
1. Connect the video equipment and the PROJECTOR.
2. Press the MODE BUTTON to set VIDEO MODE.
3. Press the MENU BUTTON and the MAIN MENU DISPLAY dialog box will appear.
4. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select SYSTEM. Press the SELECT (REAR CLICK) BUTTON. Another dialog box, COLOR SYSTEM DISPLAY, will appear. The current COLOR SYSTEM is displayed at the bottom right of the screen.
5. If you want to change the COLOR SYSTEM from the current one, move the arrow to the system that you want to select and then press the SELECT (REAR CLICK) BUTTON.
6. To quit the MENU, point to QUIT and then press the SELECT (REAR CLICK) BUTTON.
7. The setting changed is temporarily effective until you turn off the MAIN ON/OFF switch.

NOTE: The color systems you can select are highlighted in COLOR SYSTEM DISPLAY. Some projectors distributed in certain areas allow you to select *limited* systems.

MAIN MENU DISPLAY



COLOR SYSTEM DISPLAY



SIMPLE METHOD

1. Connect the video equipment and the PROJECTOR.
2. Press the MODE BUTTON to set VIDEO MODE.
3. Press the SYSTEM BUTTON on the projector and the COLOR SYSTEM DISPLAY dialog box will appear. The current COLOR SYSTEM is displayed at the bottom right of the screen.
4. If you want to change the COLOR SYSTEM from the current one, move the arrow to the system that you want to select and then press the SELECT (REAR CLICK) BUTTON.
5. To quit the MENU, point to QUIT and then press the SELECT (REAR CLICK) BUTTON.
6. The setting changed is temporarily effective until you turn off the MAIN ON/OFF switch.

PICTURE IMAGE ADJUSTMENT (VIDEO MODE)

Although picture adjustments have been preset at the factory to our standards, you may want to change the setting. You can make adjustments to the picture image by using either the REMOTE CONTROL UNIT or the TOP CONTROL of the projector.

1. Press the MENU BUTTON and the MAIN MENU DISPLAY dialog box will appear.
2. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select IMAGE. Press the SELECT (REAR CLICK) BUTTON. Another dialog box, IMAGE ADJUST DISPLAY will appear. This shows the current picture settings.
3. In this dialog box, you can adjust to increase or decrease the setting levels.
4. Move the arrow to an item to be adjust by pressing the POINT UP/DOWN BUTTON(s).
5. To increase the level, point the arrow to Δ and then press the SELECT (REAR CLICK) BUTTON. To decrease the level, point the arrow to ∇ and then press the SELECT (REAR CLICK) BUTTON.
6. You may want to store the settings to the memory so that you can recall them later. To store the settings, move the arrow to STORE and then press the SELECT (REAR CLICK) BUTTON. When you have stored the settings, you will see "OK ?" as a confirmation.
7. Move the arrow to YES and then press the SELECT (REAR CLICK) BUTTON to quit. The stored settings are permanently kept even if the MAIN ON/OFF is switched off.
8. If you do not want to store the settings, move the arrow to QUIT and then press the SELECT (REAR CLICK) BUTTON. The settings changed are temporarily effective until you turn off the MAIN ON/OFF switch.
9. To recall the settings you have stored, move the arrow to RESET and then press the SELECT (REAR CLICK) BUTTON. You can adjust the settings again if needed.

NOTE: "TINT" will be skipped during in the PAL and SECAM mode.

MAIN MENU DISPLAY

SYSTEM
➡

IMAGE
➡

SCREEN
➡

SETTING
➡

LANGUAGE
➡

QUIT
➡

IMAGE ADJUST DISPLAY

COLOR	0 - 63	32	<div style="display: flex; justify-content: space-between; align-items: center;"> Δ ↔ ∇ </div>
TINT	0 - 63	32	<div style="display: flex; justify-content: space-between; align-items: center;"> Δ ↔ ∇ </div>
BRIGHTNESS	0 - 63	32	<div style="display: flex; justify-content: space-between; align-items: center;"> Δ ↔ ∇ </div>
CONTRAST	0 - 63	32	<div style="display: flex; justify-content: space-between; align-items: center;"> Δ ↔ ∇ </div>
SHARPNESS	0 - 63	32	<div style="display: flex; justify-content: space-between; align-items: center;"> Δ ↔ ∇ </div>

RESET

STORE

QUIT

OK ?

YES ➡

NO

TABLE OF PICTURE IMAGE ADJUSTMENT

COLOR	DECREASES	0 ↔ 63	INCREASES
TINT	MORE PURPLE	0 ↔ 63	MORE GREEN
CONTRAST	LIGHTER	0 ↔ 63	DEEPER
BRIGHTNESS	DARKER	0 ↔ 63	BRIGHTER
SHARPNESS	SOFTER	0 ↔ 63	SHARPER

PICTURE SCREEN ADJUSTMENT (VIDEO MODE)

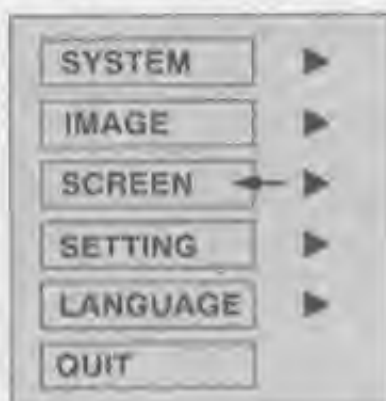
This projector has a WIDE function, which enables you to view a wider video image. This adjustment is available by using either the REMOTE CONTROL UNIT or the TOP CONTROL of the projector.

WIDE function

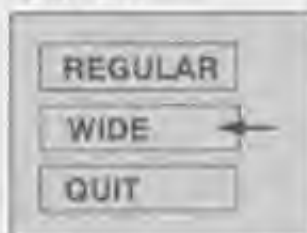
This projector is designed to project a normal video image (with 4 x 3 aspect ratio). In addition, with the WIDE function, the projector can project a wider video image by compressing 4 x 3 image. This feature may be used by those who want to enjoy watching a movie with a cinema-like image. You can switch to either WIDE or REGULAR screen mode.

1. Press the MODE BUTTON to set VIDEO MODE.
2. Press the MENU BUTTON and the MAIN MENU DISPLAY dialog box will appear.
3. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select SCREEN. Press the SELECT (REAR CLICK) BUTTON. Another dialog box, SCREEN ADJUST DISPLAY, will appear. The current screen mode is displayed at the bottom right of the screen.
4. To switch to "WIDE" mode, move the arrow to WIDE by pressing the POINT UP/DOWN BUTTON(s) and then press the SELECT (REAR CLICK) BUTTON.
5. To switch to "REGULAR" mode, move the arrow to REGULAR by pressing the POINT UP/DOWN BUTTON and then press the SELECT (REAR CLICK) BUTTON.
6. The "WIDE" settings is temporarily effective until you turn off the MAIN ON/OFF switch.
7. To quit the MENU, move the arrow to QUIT and then press the SELECT (REAR CLICK) BUTTON.

MAIN MENU DISPLAY



SCREEN ADJUST DISPLAY



OTHER FUNCTION SETTING

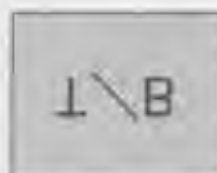
This projector has other function settings; auto retract, reverse T/B, reverse L/R, blue back, display, mode free and lamp replace.

AUTO RETRACT

When this function is in the "ON" position, the lens is retracted into lens holder when the projector is turned off. To protect the lens from the damage while you are carrying the projector, you are strongly recommended to set this function "ON". Since the lens is retracted in each time the POWER is switched off, you need to make ZOOM and FOCUS adjustments when you turn on the projector.

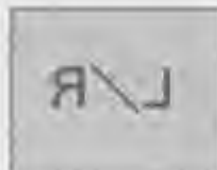
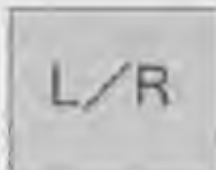
REVERSE T/B

When this function is in the "ON" position, the picture inverted for a ceiling-mounted projector.



REVERSE L/R

When this function is in the "ON" position, the picture reversed for a rear projection.



BLUE BACK

When this function is in the "ON" position, the projector will project a blue image without video noise on the screen when the video source is unplugged or turned off.

DISPLAY

When this function is in the "ON" position, on-screen displays always appear when adjustments are made. Although these on-screen displays are very helpful, these may spoil the view if adjustments are made during presentations. The certain displays do not appear when display switch is "OFF". The following displays do not appear.

- Count-down Display
- Volume Display
- Mute Display
- Normal Display ("DEFAULT" is displayed)

MODE FREE

The MODE FREE function is designed to confirm or clear the parameter data produced by CUSTOM MODE.

LAMP REPLACE

The LAMP REPLACE function is designed to reset the lamp replacement monitor timer. When replace the lamp, reset the lamp replacement monitor timer for used this function.

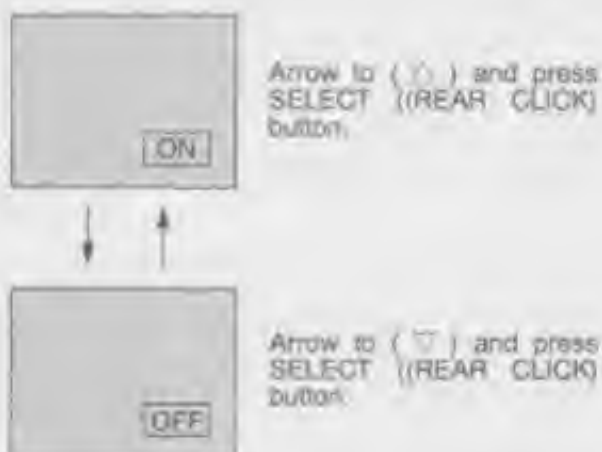
AUTO RETRACT, REVERSE T/B, REVERSE L/R, BLUE BACK and DISPLAY

1. Press the MENU BUTTON and the MAIN MENU DISPLAY dialog box will appear.
2. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select SETTING. Press the SELECT (REAR CLICK) BUTTON. Another dialog box, SETTING DISPLAY will appear.
3. Move the arrow to an item you want to be adjust and the current setting is displayed at the bottom right of the screen.
4. If you want to change the setting (ON or OFF), press the SELECT (REAR CLICK) BUTTON.
5. To quit the MENU, point to QUIT and then press the SELECT (REAR CLICK) BUTTON.
6. The settings are permanently kept even if the MAIN ON/OFF is switched off.

MAIN MENU DISPLAY



SETTING DISPLAY



MODE FREE

1. Press the MENU BUTTON and the MAIN MENU DISPLAY dialog box will appear.
2. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select SETTING. Press the SELECT (REAR CLICK) BUTTON. Another dialog box, SETTING DISPLAY will appear.

SETTING DISPLAY

AUTO RETRACT	ON	▲ ▼
REVERSE T/B	OFF	▲ ▼
REVERSE L/R	OFF	▲ ▼
BLUEBACK	ON	▲ ▼
DISPLAY	ON	▲ ▼
QUIT		
MODE FREE		▶
LAMP REPLACE		▶

MAIN MENU DISPLAY

SYSTEM	▶
IMAGE	▶
SCREEN	▶
SETTING	▶
LANGUAGE	▶
QUIT	

PARAMETER DATA LIST

MAC/XGA	OFF
TOTAL LINES	630
TOTAL DOTS	1056
HORIZONTAL	47
VERTICAL	4
CLAMP	300
H-SHIFT	OFF
HEIGHT	1
WIDTH	1
V-WINDOW	0
V-RAM SYNC	40
MODE 1 FREE MODE	
QUIT	

3. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select MODE FREE. Press the SELECT (REAR CLICK) BUTTON. Another dialog box "CUSTOM MODE LIST" will appear.
4. Move the arrow to one of the "MODEs" that you want to confirm by pressing the POINT UP/DOWN BUTTON(s). Press the SELECT (REAR CLICK) BUTTON. Another dialog box "PARAMETER DATA LIST" will appear.
5. To quit the MENU, point to QUIT and then press the SELECT (REAR CLICK) BUTTON.
6. If you clear the parameter data, move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select FREE MODE. Press the SELECT (REAR CLICK) BUTTON. You will see "OK?" as a confirmation.
7. Move the arrow to YES and then press the SELECT (REAR CLICK) BUTTON, the parameter data is clear and MENU is quit.

CUSTOM MODE LIST

MODE 1	STORED	▶
MODE 2	FREE	▶
MODE 3	FREE	▶
MODE 4	FREE	▶
MODE 5	FREE	▶
MODE 6	FREE	▶
MODE 7	FREE	▶
MODE 8	FREE	▶
QUIT		

OK ?	
YES	▶
NO	

LAMP REPLACE

NOTE: The LAMP REPLACE MONITOR must be reset only after the lamp has been replaced by a new one. Do not forget to reset the LAMP REPLACE MONITOR after replacing the lamp, so the projector can keep track of the usable life of the new lamp.

1. Press the MENU BUTTON and the MAIN MENU DISPLAY dialog box will appear.
2. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select SETTING. Press the SELECT (REAR CLICK) BUTTON. Another dialog box, SETTING DISPLAY will appear.
3. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select LAMP REPLACE and then press the SELECT (REAR CLICK) BUTTON. When you reset the lamp replace monitor, you will see "RESET?" as a confirmation.
4. Move the arrow to YES and then press the SELECT (REAR CLICK) BUTTON. The lamp replace monitor is reset and MENU is quit.
5. Move the arrow to NO and then press the SELECT (REAR CLICK) BUTTON. The lamp replace monitor is not reset and MENU is quit.

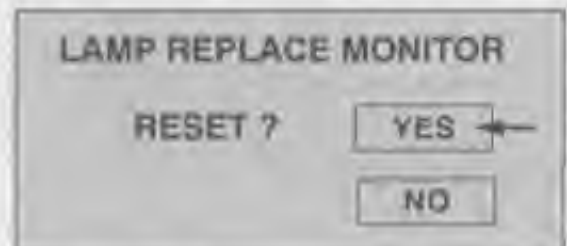
MAIN MENU DISPLAY



SETTING DISPLAY



LAMP REPLACE MONITOR



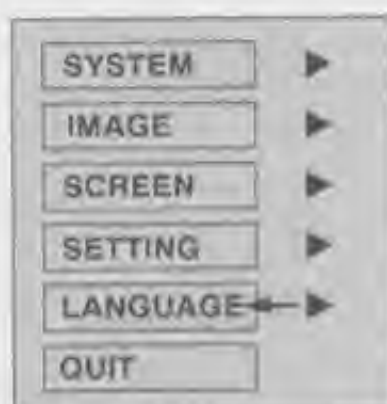
LANGUAGE ADJUSTMENT

You can select a language used in the MENU among English, German, French, Italian and Spanish. This adjustment is available by using either the REMOTE CONTROL UNIT or the TOP CONTROL of the projector.

1. Press the MENU BUTTON and the MAIN MENU DISPLAY dialog box will appear.
2. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select LANGUAGE. Press the SELECT (REAR CLICK) BUTTON. Another dialog box, LANGUAGE SETTING DISPLAY, will appear.
3. Move the arrow to the language you want to use by pressing the POINT UP/DOWN BUTTON(s) and then press the SELECT (REAR CLICK) BUTTON.
4. To quit the MENU, move the arrow to QUIT and then press the SELECT (REAR CLICK) BUTTON.
5. The setting is permanently kept even if the MAIN ON/OFF is switched off.

NOTE: The languages you can select are highlighted in LANGUAGE SETTING DISPLAY. Some projectors distributed in certain areas allow you to select *limited* languages.

MAIN MENU DISPLAY



LANGUAGE SETTING DISPLAY



AIR FILTER CARE AND CLEANING

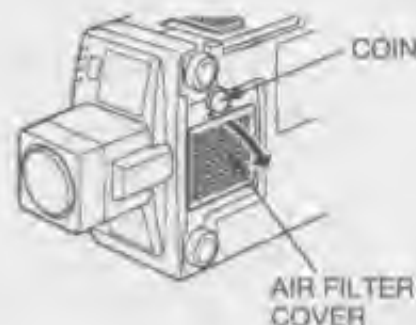
The removable air filter prevents dust from accumulating on the surface of the projection lens and projection mirror. Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and reduce the life of the projector.

To clean the air filter, follow the cleaning procedures below.

1. Turn the POWER (LAMP) ON/OFF button OFF.
2. Remove the air filter cover.
Carefully place a coin against the indented part of the filter cover and lift.
3. Remove the air filter from the filter cover.
4. Clean the air filter with a vacuum cleaner.
5. Replace the air filter. Make sure that air filter cover is securely inserted.



Do not clean with water. Doing so may damage the air filter.
Do not operate the projector with air filter removed.



RECOMMENDATION

TO ENJOY PICTURE IMAGE, USE THE PROJECTOR IN THE CLEAN ENVIRONMENT. USAGE IN THE CLEAN ENVIRONMENT IS RECOMMENDED.

When used under the dusty or smoky conditions, dust may accumulate on the liquid crystal panel and lens inside it, and may resultantly be projected on the screen together with the picture.

When the above symptoms are noticed contact the place where your authorized dealer or service station for the cleaning.

TEMPERATURE WARNING INDICATOR

The TEMPERATURE WARNING INDICATOR flashes red when the internal temperature of the projector exceeds the normal temperature.

Possible causes for the temperature warning may be:

1. Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
2. Air filter is clogged with dust particles. Remove dust from the air filter by following instructions in the Air Filter Care and Cleaning section above.

If the TEMPERATURE WARNING INDICATOR still continues to flash after checking (1) and (2), call your authorized dealer or service station.



LAMP REPLACEMENT

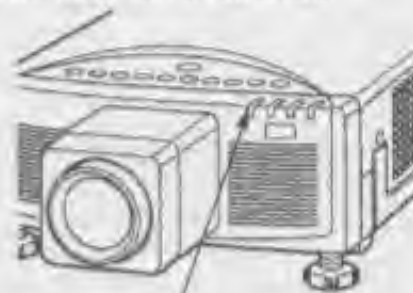
If the lamp fails to come on and the lamp monitor on the projector light is orange, you must replace the lamp.



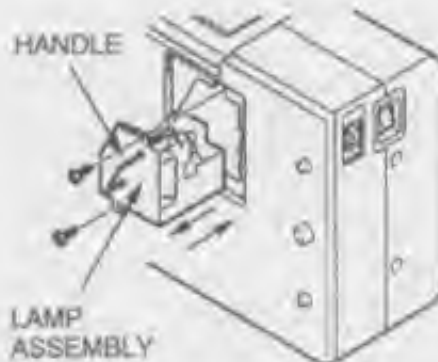
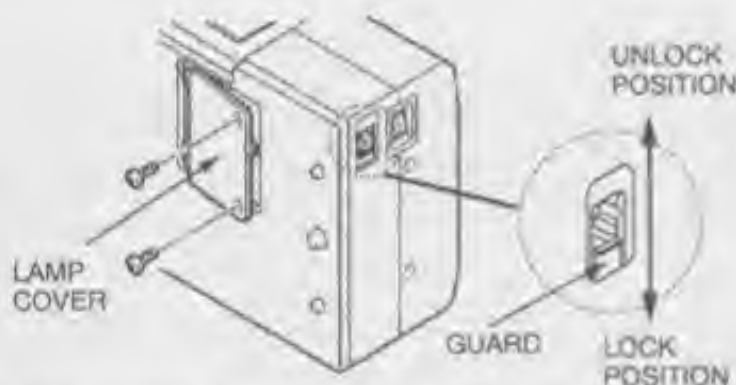
- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass part ! The glass can shatter and cause injury.
- To prevent operator injury, the lamp cover is locked. Unless the guard is in the unlocked position, the lamp cover will not disconnect even if the screws have been removed.

Follow these steps to replace the lamp assembly.

1. Turn off the projector and allow the projector to cool thoroughly.
2. Disconnect the AC cord from the projector and slide the guard to the unlock position.
3. Remove 2 screws with a screwdriver and disconnect the lamp cover.
4. Remove 2 screws with a screwdriver and pull out the lamp assembly by grasping the handle.
5. Replace the lamp assembly.
6. Tighten 4 screws to secure the lamp assembly and lamp cover.
7. Slide the guard to lock the lamp cover.
8. Connect the detachable AC cord to the projector.



LAMP REPLACEMENT
INDICATOR



9. After replacing the lamp, you must reset the LAMP REPLACEMENT MONITOR TIMER. (See "LAMP REPLACE" section on page 39.)

NOTE: Do not reset the LAMP REPLACEMENT MONITOR TIMER, except after the lamp replacement.

CLEANING THE LENS

Follow these steps to clean the projection lens:

1. Use a non-abrasive camera lens cleaner with a soft, dry cleaning cloth.
Avoid using an excessive amount of cleaner.
Abrasive cleaners, solvents or other harsh chemicals might make scratch on the lens.
2. Lightly wipe the cleaning cloth over the lens.
3. If you don't intend to use the projector immediately, replace the lens cover

TROUBLESHOOTING

Problem:	Try these Solutions:
No power	<ul style="list-style-type: none"> • Plug the projector into an AC outlet. • Turn the MAINS ON/OFF button to ON. • Be sure the READY INDICATOR light is ON. <p>NOTE: After pressing the LAMP POWER ON/OFF button to OFF. The projector functions as follows.</p> <ol style="list-style-type: none"> 1. The LAMP POWER indicator will light and the READY indicator will turn off. 2. After one minute, the READY indicator will light green again and the projector can be turned on by pressing the LAMP POWER ON/OFF button. <ul style="list-style-type: none"> • Check temperature warning indicator. If the indicator flashes red, the projector cannot be turned on. (See "USING THE PROJECTOR" section on page 24). • Check the projection lamp.
No image	<ul style="list-style-type: none"> • Check if computer or video cables are connected to the Projector and the computer or video equipment. • Check the color system. (Video Mode). • Check the computer system. (Computer Mode). • Make sure you have removed the lens cover.
Image is out of focus	<ul style="list-style-type: none"> • Adjust the focus. • Make sure the projection screen is at least 3.6 feet (1.1 m) from the projector. • Check if the projection lens is dark. <p>NOTE: Moving the projector from a cool temperature location to a warm temperature location may result in moisture condensation on the lens. In such an event, leave the projector OFF and wait until condensation disappears.</p>

Problem:	Try these Solutions:
Picture is L/R Reversed.	Check REVERSE L/R feature. (See "OTHER FUNCTION SETTING" section on pages 36 ~ 37).
Picture is T/B inverted.	Check REVERSE T/B feature. (See "OTHER FUNCTION SETTING" section on pages 36 ~ 37).
Some displays are not seen during the operation.	Check DISPLAY feature. (See "OTHER FUNCTION SETTING" section on pages 36 ~ 37).
No sound.	<ul style="list-style-type: none"> • Check audio cable connection from audio input source. • Check the audio source. • Press the VOLUME (+) button. • Press the MUTE button.
Remote control unit doesn't work.	<ul style="list-style-type: none"> • Check the batteries. • Make sure nothing is blocking between the remote control sensor and remote control unit. • Make sure you are not too far from the projector when using the remote control unit. (Maximum operate range 16.4 feet (5 m)).
Wireless mouse function does not work.	<ul style="list-style-type: none"> • Check the cable connection between the projector and the computer. • Check the mouse setting on your computer. • Turn on the projector before you turn on the computer.

TECHNICAL SPECIFICATIONS

SPECIFICATIONS

Projector Type	Multi-media Projector
Dimensions (H x W x D)	5.9" (148.9 mm) x 11.6" (296 mm) x 18.1" (460 mm)
Net Weight	16.0 lbs (7.2 kg)
LCD Panel System	1.3" TFT Active Matrix type (Thin Film Transistor) x 3
Number of Pixels	1,557,504 (519,168 (832 x 624) x 3)
Color System	4 color system (NTSC, PAL, SECAM and NTSC4.43)
Scanning Frequency	H-sync. 15 ~ 58 KHz, V-sync. 50 ~ 75 Hz
Projection Image Size (Diagonal)	Adjustable from 20" to 400"
Contrast Ratio	100 :1
Horizontal Resolution	750 TV lines
Projection Lens	F2.5 ~ 3.2, ft. 7.7" ~ 2.95" with Motor zoom and focus
Throw Distance	3.6' (1.1 m) ~ 75.6' (23.0 m)
Projection Lamp	Metal Halide, 250 watt type
Projection Mirror	Dichroic mirror and X-prism system
AV Input jacks	RCA Type x 3 (Video, Audio R and L) and DIN 4 pin (S-Video) x 1
Computer Input Jack	(VGA) HD15 Terminal x 2, Multi-pole 12 pin (Control port)
Monitor Output Jack	(VGA) HD15 Terminal x 1
Computer Audio Input Jack	Mini Stereo Type x 2
Video Monitor Output Jack	RCA Type x 1
Audio Monitor Output Jacks	RCA Type x 2 (R and L)
Other Jacks	EXT. Speaker Jack x 1
Built-In Speaker	(2) 4 cm x 7 cm, Stereo (R and L), 3 watt + 3 watt (Music Power)
Image Elevation Adjustment	Up to 6°
Voltage	100 ~ 120V AC, 50/60 Hz
Power Consumption	5.0A (Max. Ampere)
Operating Temperature	5 °C ~ 35 °C
Storage Temperature	10 °C ~ 60 °C
Remote Control Battery	(2) AA Type



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

EIKI

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